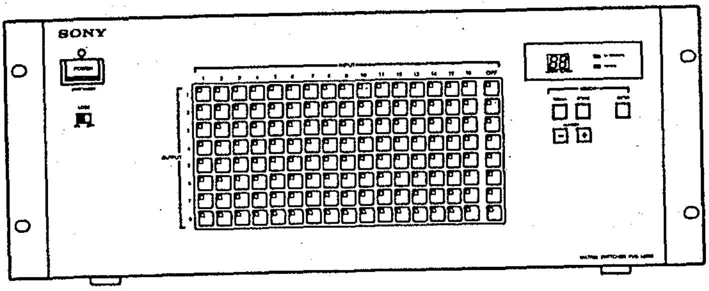
PVS-880S/1680S/1680S/1

SERVICE MANUAL

AEP Model
UK Model
J Model



PVS-1680S

SPECIFICATIONS

AEP model :

Audio

Input/output connector

Connector	Type	Number of channels	Impedance	Reference level	Max. level
AUDIO IN	Phono jack	16(8) [stereo]	47 kΩ	–10 dBs	+16 dBs
AUDIO OUT	Phono jack	8 [stereo]	470Ω	–10 dBs	+16 dBs

0 dBs=0.775 V

Load impedance: More than 10 kΩ
Frequency characteristics: 20 Hz to 20 kHz +0.1/–0.5 dB
Total harmonic distortion: Less than 0.005% [20 Hz to 20 kHz, –10 dBs, load: 10 kΩ]
Crosstalk: Less than –80dB [when fully inputting/outputting, 1 kHz, +10 dBs]
S/N ratio: More than 95 dB [IHF-A, input short]

[Common between the PVS-1680S and PVS-880S]

Video (composite)

Input/output connector

Connector	Type	Number of channels	Impedance
VIDEO IN	BNC	16(8)	75 Ω
VIDEO OUT	BNC	8	75 Ω

Reference Video terminal

Terminal	Form	Number of inputs	Impedance	Max. input level
REF IN	BNC	2	47 kΩ	4 Vp-p

	PVS-1680S	PVS-880S
Frequency characteristics	100 kHz to 10 MHz +1.2/–0.3 dB	100 kHz to 10 MHz +0.8/–0.3 dB

DG: Less than 0.5%
DP: Less than 0.5%

	PVS-1680S	PVS-880S
Crosstalk	Less than –46 dB [4.43 MHz]	Less than –48 dB [4.43 MHz]

S/N ratio: More than 65 dB [100 kHz HPF, 5 MHz LPF]
K factor: Less than 0.3% [2T pulse]

S Video

Input/output connector

Connector	Type	Number of channels	Impedance
S-VIDEO IN	4-pin mini DIN	4	75 Ω
S-VIDEO OUT	4-pin mini DIN	4	75 Ω

Note: Values and units shown in parentheses are for the PVS-880S.

Frequency characteristics: 100 kHz to 10 MHz +0.3/–1 dB
Crosstalk: Less than –45 dB [4.43 MHz]
S/N ratio: More than 65 dB [100 kHz HPF, 5 MHz LPF]
K factor: Less than 0.3% [2T pulse]

REMOTE Port (PARALLEL IN)

Terminal form: 25-pin D-SUB
Input type: Contact input [H CMOS level]
ON-state voltage: Less than 1.2 V
OFF-state voltage: More than 3.15 V
Input dielectric strength: 30 V
Terminal voltage during open circuit: 5 V
Input pulse width: More than 100 msec

RS-232C Port

Terminal form: 25-pin D-SUB
Electrical characteristics: Complying with the RS-232C standards
Baud rate: 9600 bps

General

Power supply: 230 V AC, 50/60 Hz
Power consumption: PVS-1680S 25 W
PVS-880S 17 W
Standby mode: 7 W[common]
Operating temperature: 0 to 40°C
Storage temperature: –20 to 60°C
Mass: PVS-1680S 13 kg
PVS-880S 10 kg
Dimensions: PVS-1680S 482 [W] x 176 [H] x 350 [D] mm
PVS-880S 482 [W] x 132 [H] x 350 [D] mm
[excluding protruding parts]
Accessory: Power cable (1)

Specifications and appearance are subject to change without notice.

MICROFILM

MATRIX SWITCHER

SONY®

(Jモデル)

オーディオ系

入出力端子

端子	形状	チャンネル数	インピーダンス	基準レベル	最大レベル
AUDIO IN	ピンジャック	ステレオ16 (8)	47kΩ	−10dBs	+16dBs
AUDIO OUT	ピンジャック	ステレオ8	470Ω	−10dBs	+16dBs

0dBs=0.775V

適合負荷インピーダンス	10kΩ以上
周波数特性	20Hz~20kHz +0.1/−0.5dB以内
全高調波歪率	0.005%以下〔20Hz~20kHz、−10dBs、10kΩ 負荷〕
クロストーク	−80dB以下〔1kHz、+10dBsを全入出力時〕
S/N比	95dB以上〔IHF-A、入力ショート〕

〔PVS-1680S、PVS-880S共通〕

ビデオ系（コンポジット）

信号方式	NTSC

入出力端子

端子	形状	チャンネル数	インピーダンス
VIDEO IN	BNC	16 (8)	75Ω
VIDEO OUT	BNC	8	75Ω

リファレンスビデオ端子

端子	形状	入力数	インピーダンス	最大入力レベル
REF IN	BNC	2	47kΩ	4Vp-p

	PVS-1680S	PVS-880S
周波数特性	100kHz~10MHz +1.2/−0.3dB以内	100kHz~10MHz +0.8/−0.3 dB以内

DG	0.5%以下
DP	0.5° 以下

	PVS-1680S	PVS-880S
クロストーク	−46dB以下〔3.58MHz〕	−48dB以下〔3.58MHz〕

S/N比	65dB以上 〔100kHz HPF、5MHz LPF〕
Kファクタ	0.3%以下〔2Tパルス〕

Sビデオ系

信号方式	NTSC

入出力端子

端子	形状	チャンネル数	インピーダンス
S VIDEO IN	4ピンミニDIN	4	75Ω
S VIDEO OUT	4ピンミニDIN	4	75Ω

注意 ・（ ）内の数単位はPVS-880Sの内容となります。

周波数特性	100kHz~10MHz ±1dB以内
クロストーク	−46dB以下〔3.58MHz〕
S/N比	65dB以上 〔100kHz HPF、5MHz LPF〕
Kファクタ	0.3%以下〔2Tパルス〕

リモート端子（PARALLEL IN）

端子形状	D-SUB 25ピン
入力方式	メイク接点入力〔H CMOSレベル〕
入力オン電圧	1.2V以下
入力オフ電圧	3.15V以上
入力耐電圧	30V
開放時端子電圧	5V
入力パルス幅	100msec以上

RS-232C端子

端子形状	D-SUB 25ピン
電気的特性	RS-232C規格準拠
ボーレート	9600bps

一般

電源	AC100V、50/60Hz
消費電力	PVS-1680S 25W PVS-880S 17W スタンバイ時：7W
動作温度	0°C~40°C
保存温度	−20°C~60°C
重量	PVS-1680S 13kg PVS-880S 10kg
外形寸法	PVS-1680S 482×176×350mm PVS-880S 482×132×350mm 〔幅/高さ/奥行き〕突起部を含まず
付属品	電源コード〔1〕

仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

サービス，点検時には次のことにご注意下さい。

1．注意事項をお守りください。

サービスのとき特に注意を要する個所については，キャビネット，シャーシ，部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守り下さい。

2．指定部品のご使用を

セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は，使用されていたものと同じ特性の部品を使用して下さい。特に回路図，部品表に⚠印で指定されている安全上重要な部品は必ず指定のものをご使用下さい。

3．部品の取付けや配線の引きまわしはもとどおりに

安全上，チューブやテープなどの絶縁材料を使用したり，プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパによって発熱部品や高圧部品に接近しないよう配慮されていますので，これらは必ずもとどおりにして下さい。

4．サービス後は安全点検を

サービスのために取外したネジ，部品，配線がもとどおりになっているか，またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し，安全性が確保されていることを確認して下さい。

5．チップ部品交換時の注意

- 取り外した部品は再使用しないで下さい。
- タンタルコンデンサのマイナス側は熱に弱いため交換時は注意して下さい。

6．フレキシブルプリント基板の取扱いについて

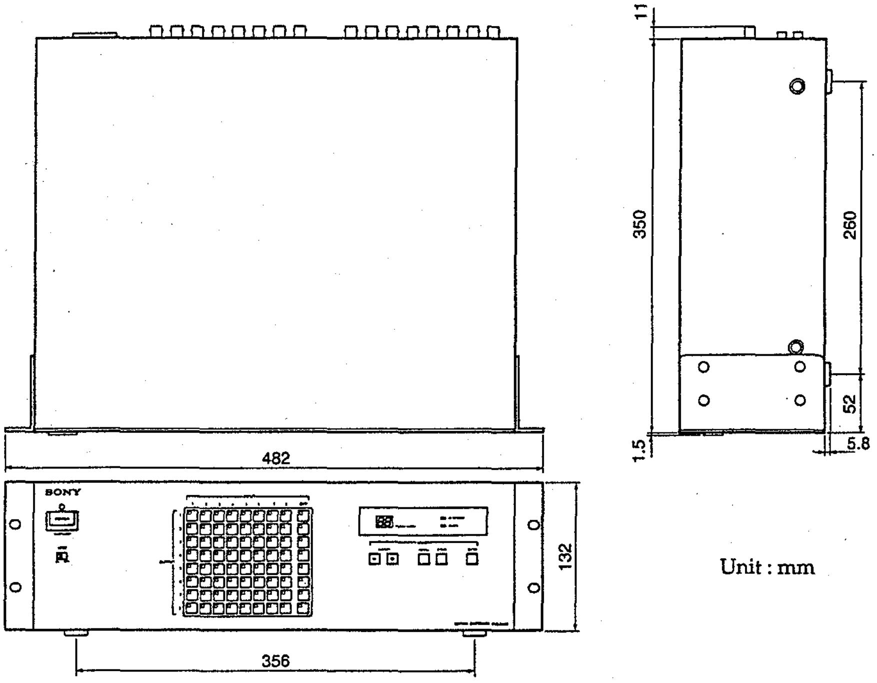
- コテ先温度を270℃前後にして行なって下さい。
- 同一パターンに何度もコテ先を当てないで下さい。（3回以内）
- パターンに力が加わらないよう注意して下さい。

SECTION 1
GENERAL

This section is extracted from instruction manual.

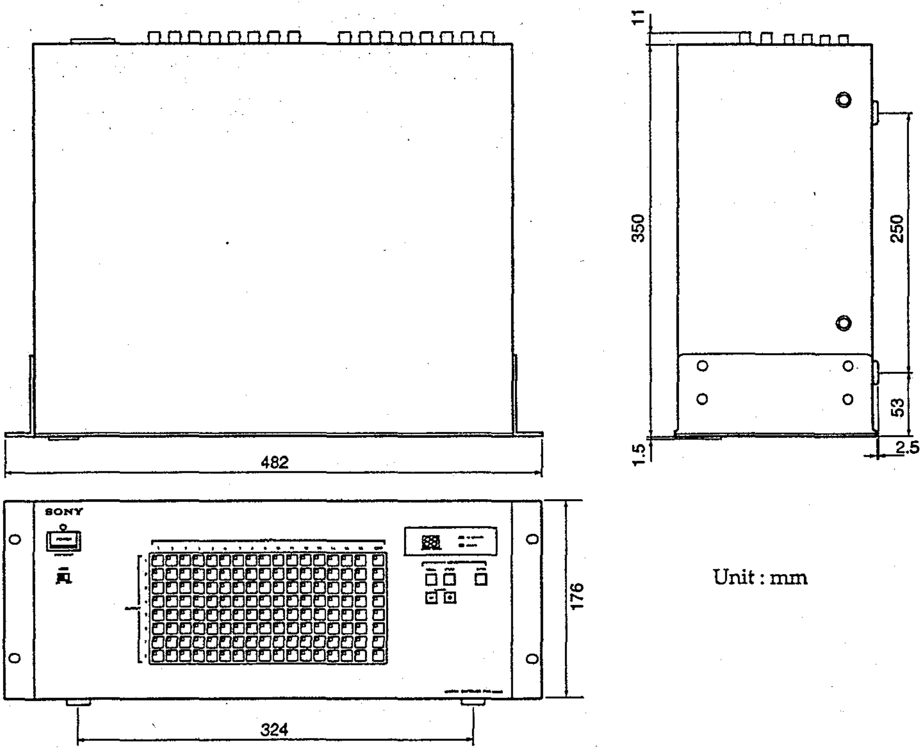
Dimensions

PVS-880S


11
350
260
52
1.5
5.8
482
SONY
132
356

Unit : mm

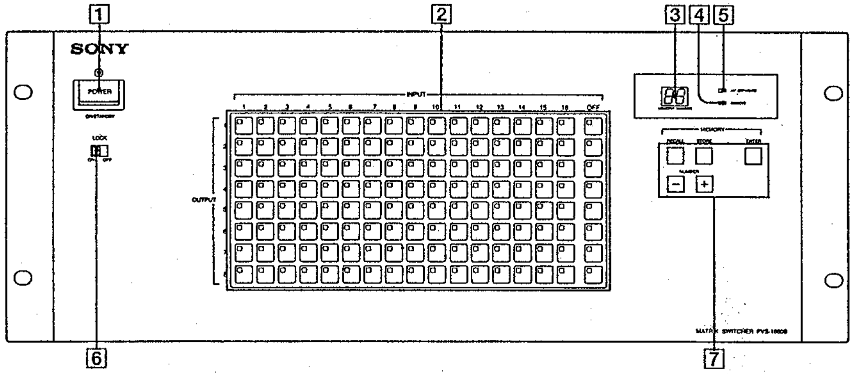
PVS-1680S, 1680S/1


11
350
250
53
1.5
2.5
482
SONY
176
324

Unit : mm

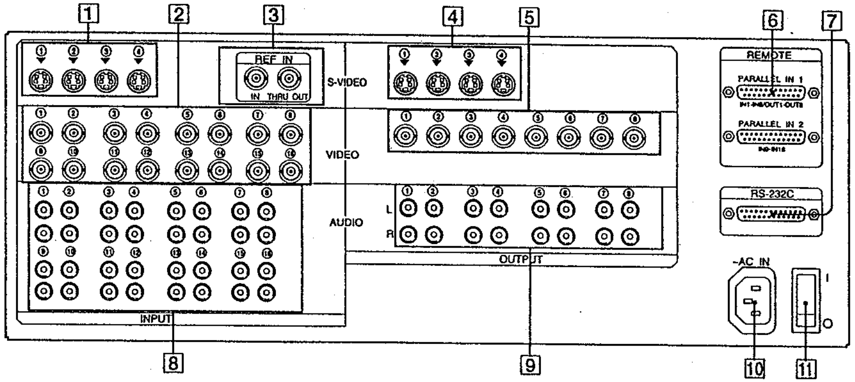
Location and Functions of Parts

Front panel



•The figure above represents the PVS-1680S. With the PVS-880S, the number and allocation of the buttons shown in 2 and 7 in the above figure are different, although their functions are the same as with the PVS-1680S.

Rear panel



•The figure above represents the PVS-1680S. With the PVS-880S, the number and allocation of the buttons shown in 2, 5, 6, 8 and 9 in the above figure are different, although their functions are the same as with the PVS-1680S.

1 POWER Switch and Pilot Lamp

While the MAIN POWER switch on the rear panel is set to " I " (ON), press the POWER switch to turn the power ON, or to set the system to Standby mode.

In Standby mode, the pilot lamp is lit in red. When the power is ON, the lamp is lit in green.

2 Crosspoint Buttons

Use these buttons to make the settings for the input/output channels.

For each of the output channels 1 to 8, choose a channel that is to be the input channel and press the numbered button (INPUT 16 (8)) or the OFF button in that row. The indicator of the button you have just pressed lights up.

Pressing the INPUT OFF button sends black-screen video and muted audio to that output channel.

3 MEMORY NUMBER Display

Displays MEMORY NUMBERs 01 to 50.

4 REMOTE Indicator

The indicator lights up when the system is controlled from a control signal via the REMOTE and RS-232C ports on the rear panel. Pressing the Crosspoint buttons on the front panel turns the indicator OFF.

5 A/V SEPARATE Indicator

The indicator lights up when the A/V SEPARATE function is used from the control signal via the RS-232C port. The indicator goes OFF only when the Crosspoint buttons on the front panel are pressed and there is no AV SEPARATE status displayed. The A/V SEPARATE function can be used only via the RS-232C interface.

For further details, see page 9.

6 LOCK Switch

Setting the LOCK switch to ON disables operation of the buttons on the front panel. For safety reasons, operation of the POWER switch cannot be locked out.

For operation from an external location using the REMOTE or RS-232C port on the rear panel, be sure to set the LOCK switch to ON in order to avoid inconsistent operations of the system caused by operation with the Crosspoint buttons.

7 MEMORY Operation Buttons

NUMBER+ and −, RECALL, STORE and ENTER

Use these buttons to store the settings of the Crosspoint buttons in memory, or to call the stored settings (MEMORY RECALL). For details on operation of these buttons, see page 6.

1 S VIDEO INPUT Connectors

Accept S video (Y/C) signals.

2 VIDEO INPUT Connectors

Accept composite video signals.

3 REF IN (Reference Video Input) Connectors

The video signals are switched by being synchronized with the vertical sync pulses of the video-signal input from the REF IN connectors.

The two terminals are loop-through, and the system has high-impedance limiting (47 kΩ).

4 S VIDEO OUTPUT Connectors

Output S video (Y/C) signals.

5 VIDEO Output Connectors

Output composite video signals.

6 REMOTE Parallel Input Port

Use this port to control the PVS-880S remotely from an external location.

7 RS-232C Serial Input/Output Port

Use this port to control the PVS-880S using the SRP-C5000A system controller or a personal computer.

8 AUDIO INPUT Jacks

Accept audio signals.

The reference input level is −10 dBs.

9 AUDIO OUTPUT Jacks

Output audio signals.

The reference input level is −10 dBs.

10 AC IN Connector

To connect the supplied power cable.

11 MAIN POWER Switch

Set this switch to " I " (ON) to use the PVS-880S. Setting the switch to " O " turns the power OFF.

NOTE

Although the video and S video systems are switched simultaneously, a video input signal cannot be output via S video output. Likewise, an S video input signal cannot be output via video output.

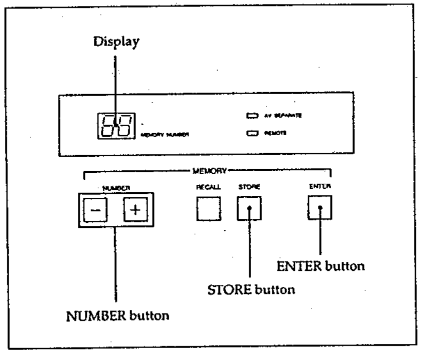
Using the Memory Functions

Storing Settings in Memory

Setting specified using the Crosspoint buttons of the PVS-880S can be stored in memory by using the memory buttons on the front panel or via the RS-232C interface. Up to 50 patterns (MEMORY NUMBERs 01 to 50) can be stored in memory.

Basic Operation

Example: PVS-880S (With the PVS-1680S, only the allocation of the buttons differs.)



1 Specify your settings for each input/output channel by using the Crosspoint buttons or via remote control from an external location.

2 Press the STORE button.

When the STORE button is pressed, the MEMORY NUMBER display shows "01" blinking. (If a setting has been already stored to MEMORY NUMBER 01, the display shows "02" blinking, etc.)

3 Press the ENTER button.

The blinking digits stay lit. Storage of your setting is completed.
If the ENTER button is not pressed within 5 seconds after the STORE button is pressed, the MEMORY NUMBER display goes off and the state before the STORE button was pressed is resumed.

Overwriting Existing Settings in Memory

After step **2** of the basic operation, press the NUMBER button to display the desired MEMORY NUMBER. Press the ENTER button to finalize overwriting memory.

- Press and hold down the NUMBER ⊞ or ⊟ button to fast forward/reverse the MEMORY NUMBERs.

To Cancel Storage

After step **2** of the basic operation, press the STORE button again to cancel storage of settings.
If no button is pressed within 5 seconds after step **2** of the basic operation, the system automatically cancels the storage operation.

NOTE

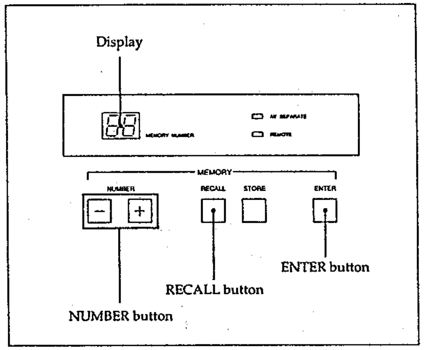
- If all 50 MEMORY NUMBERs are used and the STORE button is pressed by mistake, the MEMORY NUMBER display shows "Er" blinking. In this state, storage will not be made when the ENTER button is pressed. To overwrite memory, press the NUMBER button while "Er" is blinking (approx. 5 seconds) and display the desired MEMORY NUMBER, then press the ENTER button.
- MEMORY NUMBERs cannot be skipped when storing settings in memory. Storage automatically will be made in sequence of 01, 02, and so on.

MEMORY RECALL

Stored settings can be called from memory using the MEMORY buttons on the front panel or via the RS-232C interface.

Basic Operation

Example: PVS-880S (With the PVS-1680S, only the allocation of the buttons differs.)



1 Press the RECALL button.

The latest MEMORY NUMBER will appear in the MEMORY NUMBER display, and the corresponding Crosspoint buttons will blink.
If the MEMORY NUMBER display was off before pressing the RECALL button, "01" will be called, and the corresponding Crosspoint buttons will blink.

2 Press the NUMBER button to display the desired MEMORY NUMBER.

At this time, blinking of the Crosspoint buttons moves. This is because the system displays the contents of memory. In reality, both audio and video are not switched.
If the NUMBER button is not pressed within 5 seconds after the RECALL button is pressed, the system returns to the state before the RECALL button was pressed.

3 Press the ENTER button.

The blinking Crosspoint buttons stay lit. MEMORY RECALL is completed.
If the ENTER button is not pressed within 5 seconds after the STORE button is pressed and then released, the system returns to the state before the STORE button was pressed.

To Cancel MEMORY RECALL

After step **1** or **2** of the basic operation, press the RECALL button again to cancel storage of the setting.
If no button is pressed within 5 seconds, the system automatically cancels the MEMORY RECALL operation.

NOTE

If no setting is stored in memory, a MEMORY RECALL operation cannot be performed when the RECALL button is pressed.

Using the Memory Functions

MEMORY ALL CLEAR

Use this function to delete all stored settings from memory.

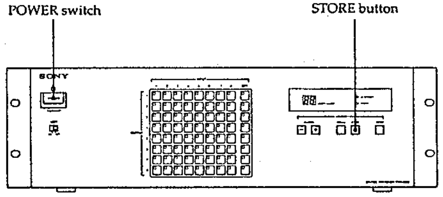
Operation

While the power is ON (pilot lamp is lit in green), press and hold down the STORE button and then press the POWER switch to set the system to Standby mode (pilot lamp is lit in red).

When the power of the system is switched ON next time, all settings will be cleared from memory. The settings of the Crosspoint buttons will be reset to their default settings.

Example: PVS-880S

(With the PVS-1680S, the position of the STORE button is different.)

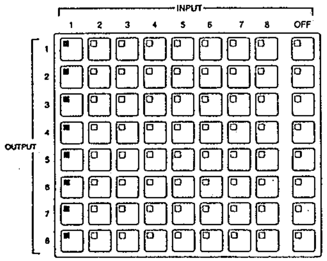


NOTE

Individual settings cannot be deleted from memory. Check carefully when you use the MEMORY ALL CLEAR function.

Default Setting

By default the indicators are set as follows:



Input channel 1 is selected for all output channels.

All indicators are off.

LAST MEMORY

With the PVS-1680S/880S, the LAST MEMORY function is always active so that the latest settings can be restored. Use this function if the system was unintentionally set to Standby mode from power ON, or if the MAIN POWER switch was set to OFF by mistake. The previous settings will be restored when the system is switched ON next time.

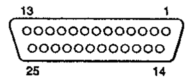
REMOTE Parallel Input Port

Functions of the REMOTE Port

The Crosspoint buttons of the PVS-880S can be set from an external location using a device connected via the REMOTE port. However, this function is available only with channels 1 to 8 for both input and output. The OFF buttons cannot be operated via the REMOTE port.

Pin Assignment of the REMOTE Port

The REMOTE port is available as a 25-pin D-SUB connector (female).
Pin assignment and connection are as follows:



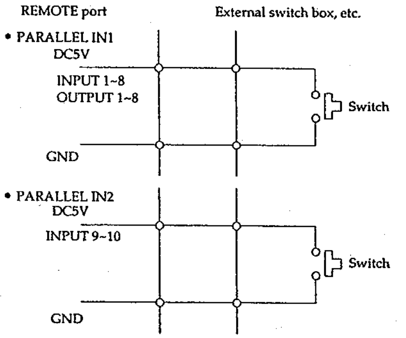
- The pin assignment for the PARALLEL IN port of the PVS-880S is the same as for the PARALLEL IN 1 port of the PVS-1680S.

Pin Assignment of the PVS-1680S

PARALLEL IN 1				PARALLEL IN 2			
Pin No.	Name	Pin No.	Name	Pin No.	Name	Pin No.	Name
1	GND	14	GND	1	GND	14	GND
2	IN 1	15	IN 2	2	IN 9	15	IN 10
3	IN 3	16	IN 4	3	IN 11	16	IN 12
4	IN 5	17	IN 6	4	IN 13	17	IN 14
5	IN 7	18	IN 8	5	IN 15	18	IN 16
6	OUT 1	19	OUT 2	6	NC	19	NC
7	OUT 3	20	OUT 4	7	NC	20	NC
8	OUT 5	21	OUT 6	8	NC	21	NC
9	OUT 7	22	OUT 8	9	NC	22	NC
10	GND	23	GND	10	GND	23	GND
11	GND	24	GND	11	GND	24	GND
12	GND	25	GND	12	GND	25	GND
13	GND			13	GND		

Example of Connection Circuit

The REMOTE Parallel Input port has sixteen (eight) sets of A/V input channels and eight sets of output channels. Crosspoints are created by specifying the input and output channels.
As each input/output channel is pulled up to 5 V DC, there is no need to apply voltage from each part.



NOTE

- Be sure to use a nonlocking-type external switches, such as momentally switches. Using locking-type switches will cause improper operation or malfunction.
- Use a cable no more than 50 m in length.

Operation

When setting the Crosspoint buttons via the REMOTE port, settings are made by a double-action method of selecting respective buttons for the input and output channels, rather than by directly pressing the Crosspoint buttons on the front panel.
For actual operation, perform the following steps:

1. **Press the button for the desired input or output channel.**

2. **Press the button for the output channel if the button pressed in step 1 was input. Press the button for input channel if the button pressed in step 1 was output.**

   At this point, the Crosspoint is determined.

NOTE

If the second button is not pressed within 5 seconds after the first button is pressed, the system automatically returns to the state immediately before the first button was pressed.

Pressing the button again allows you to change the first channel pressed, if it is of the same input or output channel group.

RS-232C Port

The PVS-1680S/PVS-880S can be controlled from equipment with a REMOTE port, such as the SRP-C5000A system controller, or from a personal computer via its RS-232C port.

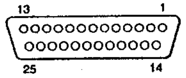
Data Format

Data format is set as follows:
For communication protocol, refer to the separate "PVS-1680S/PVS-880S RS-232C Interface Manual" available from a Sony office in your area.

Mode:	Asynchronous
Data length:	8 bits
Baud rate:	9600 bps
Parity check:	Odd parity
Stop-bit length:	1 bit
Bit sequence:	Send from the least-significant bit.

Connector-Pin Assignment

The RS-232C port is available as a 25-pin D-SUB connector (female).
The pin assignment is as follows:



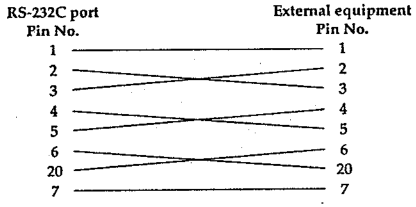
Pin No.	Name	Function
1	FG	Frame ground
2	TXD	Transmit data
3	RXD	Receive data
4	RTS	Request to send
5	CTS	Clear to send
6	DSR	Data set ready
7	SG	Signal ground
20	DTR	Data terminal ready

Connection

Use the cables with the following specifications for connection between the RS-232C port and external equipment.

Connector:	25-pin D-SUB (male)
Cable:	Multicore shielded cable for data communications (min. 8 cores)
Cable length:	Less than 15 m

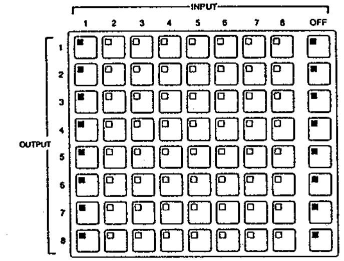
Connect the RS-232C port to external equipment as follows:



A/V SEPARATE Function

This function is enabled only during remote operation via the RS-232C port.
Normally when switching a Crosspoint, audio and video signals are switched together. Using the A/V SEPARATE function allows you to switch the audio signal separately from the video signal. For example, outputting background music from a CD player while displaying pictures on a projector can be easily accomplished.
When the A/V SEPARATE function is used, the indicators are as follows:

Example: Outputting only audio from INPUT 1 to the output channels without picture



With the output channels separated by the A/V SEPARATE function, two indicators light up simultaneously.

The A/V SEPARATE and REMOTE indicators light up.

NOTE

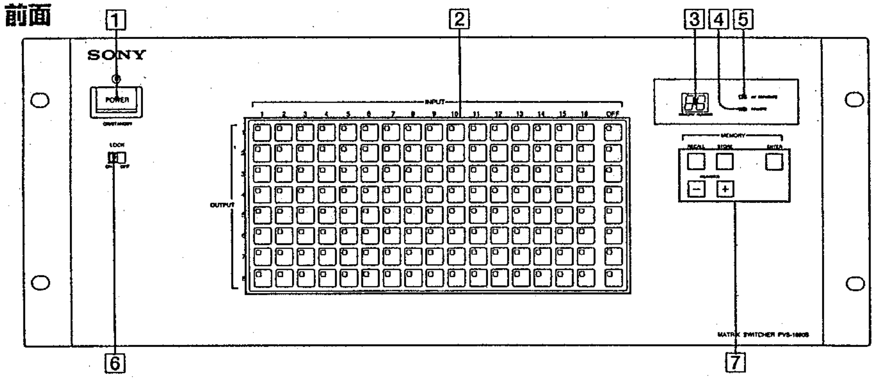
With the output channels separated by the A/V SEPARATE function, two indicators light up simultaneously. However, whether they are video or audio cannot be distinguished. Check them at the host side (A/V controller or computer).

Troubleshooting Guide

Power cannot be turned ON.	• The power cable may be disconnected from the wall outlet or AC IN connector. • The MAIN POWER switch may be OFF.
No video/audio is output, although the pilot lamp is on.	• The connecting cord may have a break or be short-circuited. • The audio/video cables may be connected incorrectly. • Setting of the Crosspoint buttons may be incorrect. • The Crosspoint buttons may be OFF.
The system does not operate when buttons other than the POWER switch are pressed.	• The LOCK switch may be ON.
Remote operation does not work.	• The connecting cord may be too long. Use a cord of the specified length. • The connecting cord may be disconnected. • Be sure to tighten the screws on the 25-pin D-SUB connector.
Communication via the RS-232C port cannot be made.	• The connecting cord may not be a cross cable. • Check communication protocol again.
Momentary deterioration of picture quality when switching signals.	• Is a reference video signal being input to the REF IN connector? • Is the video equipment connected in the system synchronized?

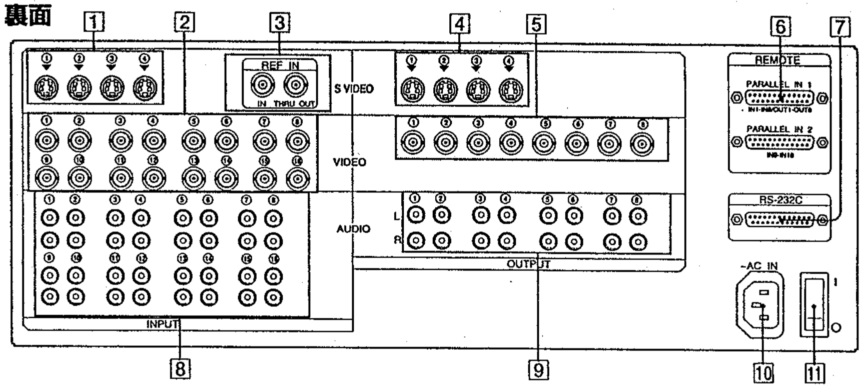
各部の名称と働き

前面



• 図はPVS-1680Sのものです。PVS-880の場合は2、7ボタンの数や配列が異なりますが、機能については同一となります。

裏面



• 図はPVS-1680Sのものです。PVS-880Sの場合は2、5、6、8、9の数や配列が異なりますが、機能については同一となります。

1 POWER(電源)スイッチとパイロットランプ

裏面のMAIN POWER(主電源)スイッチが「I」(ON)のとき、このスイッチを押すことにより電源ONまたはスタンバイ状態にすることができます。

スタンバイ状態のときはパイロットランプが赤色に点灯し、電源ON状態のときは緑色に点灯します。

2 クロスポイントボタン

入出力チャンネルの設定を決めます。

各出力(OUTPUT1～8)に対応する入力を、INPUT 1～16(8)およびOFFからそれぞれ1つだけ選び、ボタンを押します。押したボタンのインジケーターが点灯します。

INPUT OFFボタンを押すと、映像は黒、音声は無音の状態となります。

3 MEMORY NUMBER (メモリー番号) 表示部

メモリーNo. 01～50までを表示します。

4 REMOTE (リモート) インジケーター

裏面のREMOTE端子、RS-232C端子を使用して、外部からコントロールしたときに点灯します。本機の前面パネル上のクロスポイントボタンを押すと、インジケーターは消灯します。

5 AV SEPARATE (AVセパレート) インジケーター

RS-232C端子を使って外部からAVセパレート機能を使用すると、このインジケーターが点灯します。本機の前面パネル上のクロスポイントボタンを押して、AVセパレートの状態が全て無くなった場合だけインジケーターは消灯します。AVセパレート機能はRS-232Cインターフェイスを介してのみ使用することができます。詳しくは9ページをご覧ください。

6 LOCK (ロック) スイッチ

このスイッチをONにすると前面パネル上のボタン操作ができなくなります。ただし、安全のためPOWERスイッチにはロック機能は働きません。

裏面のREMOTE端子、RS-232C端子を使って外部から操作する場合は、クロスポイントボタンでの操作による動作の矛盾を避けるため、このスイッチは必ずONにしてください。

7 MEMORY操作ボタン

NUMBER +、－、RECALL (リコール)、STORE (ストアー)、ENTER

クロスポイントボタンの設定をメモリーに記憶させたり (メモリーストアー)、記憶したメモリーを呼び出す (メモリーリコール) ときに使います。操作方法については4ページをご覧ください。

1 S VIDEO INPUT(Sビデオ入力)端子

Sビデオ (Y/C) 信号を入力します。

2 VIDEO INPUT(ビデオ入力)端子

コンポジットビデオ信号を入力します。

3 REF IN(リファレンスビデオ入力)端子

この端子に入力されたビデオ信号の垂直同期パルスに同期してビデオ信号の切り換えを行います。

2つの端子はループスルーになっおり、ハイインピーダンス終端 (47kΩ) されています。

4 S VIDEO OUTPUT(Sビデオ出力)端子

Sビデオ (Y/C) 信号を出力します。

5 VIDEO(ビデオ出力)端子

コンポジットビデオ信号を出力します。

ご注意

ビデオ系とSビデオ系は同時に切り換わりますが、ビデオ入力信号をSビデオ出力に出力させたり、Sビデオ入力信号をビデオ出力へ出力させたりすることはできません。

6 REMOTE(リモートパラレル入力)端子

外部から本機をリモートコントロールするときに使います。

7 RS-232C(シリアル入出力)端子

システムコントローラーSRP-C5000Aやパソコン等で本機をコントロールするときに使います。

8 AUDIO INPUT(オーディオ入力)端子

オーディオ信号を入力します。

基準入力レベルは－10dBsです。

9 AUDIO OUTPUT(オーディオ出力)端子

オーディオ信号を出力します。

基準出力レベルは－10dBsです。

10 AC IN端子

付属の電源コードを接続します。

11 MAIN POWER(主電源)スイッチ

本機を使用する場合は必ずこのスイッチを「I」(ON) にしてください。「O」にするとOFFとなります。

取扱説明書を抜粋し、
そのまま記載しています。

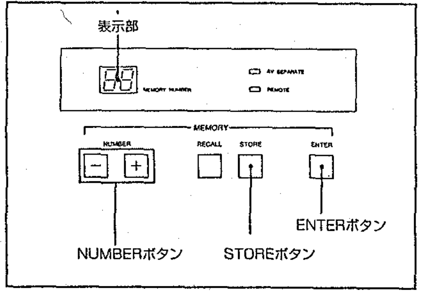
メモリー機能の使いかた

メモリーストアーについて

本機は、前面パネルのメモリー操作部またはRS-232C通信を使って、クロスポイントボタンの設定をメモリーに記憶させることができます。メモリーは最大50個(MEMORY NUMBER 01 ～ 50)まで書き込めます。

基本操作

(例)PVS-880S(PVS-1680Sは配列のみ異なります。)


表示部
MEMORY NUMBER
AV SEPARATE
REMOTE
MEMORY
NUMBER
RECALL
STORE
ENTER
ENTERボタン
NUMBERボタン
STOREボタン

1 クロスポイントボタンまたは外部からのリモートコントロールにより、各入出力チャンネルの設定を決めます。

2 STOREボタンを押します。
STOREボタンを押すと、MEMORY NUMBER表示部に「01」が点滅します。（すでに「01」がストアーされている場合は「02」が点滅します。）

3 ENTERボタンを押します。
表示部の点滅が点灯に換わり、ストアーが完了します。
STOREボタンを押した後、5秒以内にENTERボタンを押さないと、MEMORY NUMBER 表示部が消灯し、STOREボタンを押す前の状態に戻ります。

メモリーの上書きをするには

基本操作2の後にNUMBERボタンを押して、上書きしたいメモリー番号を表示させます。ENTERボタンを押すとメモリーの上書きが完了します。

- NUMBER＋、－ボタンは、押し続けると自動的に数字を速く送ったり（＋）戻したり（－）することができます。

ストアー操作を途中でやめるには

基本操作2の後にもう一度STOREボタンを押すと、ストアー操作を解除することができます。
また基本操作2の後に5秒以上何もしなければ自動的にストアー操作は解除されます。

ご注意

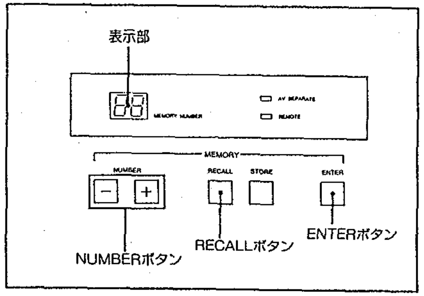
- メモリーを最大の50個まで使用している場合に誤ってSTOREボタンを押すと、MEMORY NUMBER表示部に「Er」が点滅し、ENTERボタンを押してもストアーは行われません。メモリーを上書きしたい場合には、「Er」が点滅している間(約5秒間) にNUMBERボタンを押して上書きしたいメモリー番号に合わせ、ENTERボタンを押してください。
- メモリー番号は飛ばしてストアーすることができません。自動的に01、02、……、50の順でストアーされます。

メモリーリコールについて

前面パネル操作部またはRS-232C通信を使って、記憶したメモリーを呼び出すことができます。

基本操作

(例)PVS-880S(PVS-1680Sは配列のみ異なります。)


表示部
MEMORY NUMBER
AV SEPARATE
REMOTE
MEMORY
NUMBER
RECALL
STORE
ENTER
NUMBERボタン
RECALLボタン
ENTERボタン

1 RECALLボタンを押します。
表示部にはRECALLボタンを押す直前のメモリー番号が表示され、クロスポイントボタンが点滅します。
RECALLボタンを押す直前に表示部が消灯している場合は「01」が呼び出され、クロスポイントボタンが点滅します。

2 NUMBERボタンを押して希望するメモリー番号を表示します。
このとき、クロスポイントボタンの点滅が移動しますが、これはメモリー内容を表示しているだけで、実際は音声、画像ともに切り換わっていません。
RECALLボタンを押してから5秒以内にNUMBERボタンを押さないと、RECALLボタンを押す前の状態に戻ります。

3 ENTERボタンを押します。
クロスポイントボタンの点滅が点灯に変わり、リコール操作が完了します。
NUMBERボタンを押して、離してから5秒以内にENTERボタンを押さないと、RECALLボタンを押す前の状態に戻ります。

リコール操作を途中でやめるには

基本操作1または2の後にもう一度RECALLボタンを押すか、または5秒以上何もしなければ、リコール操作が解除されます。

ご注意

本機にメモリーが何もストアーされていない場合はRECALLボタンを押してもリコール操作はできません。

メモリー機能の使いかた

メモリーオールクリアについて

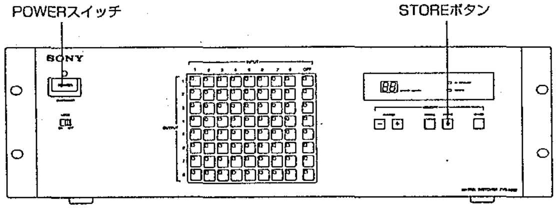
本機にストアーされたメモリーをすべて消去することができます。

操作

電源ON状態のとき(パイロットランプが緑色に点灯)、STOREボタンを押しながらPOWERスイッチを押し、スタンバイ状態にします(パイロットランプは赤色に点灯)。

次に電源ON状態にすると、メモリーがすべて消去されます。クロスポイントボタンの設定は工場出荷時の初期状態になります。

(例) PVS-880S
(PVS-1680SはSTOREボタンの位置が異なります。)



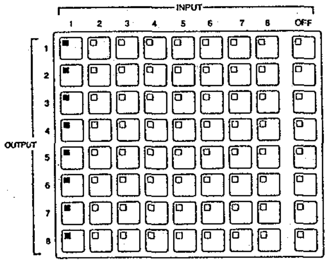
ご注意

本機では個別にメモリーを消去することはできませんので、メモリーオールクリアをするときには充分お確かめの上操作してください。

工場出荷時の設定

工場出荷時の各表示部の設定は次のようになっています。

(例)PVS-880S



すべての出力に入力1チャンネルが選ばれています。

すべてのインジケーターは消灯しています。

ラストメモリーについて

本機は常にラストメモリー機能が働いています。この機能により、電源ON状態から誤ってスタンバイまたは主電源OFFにしても、次に電源ON状態にしたときに、直前に設定した内容を再現することができます。

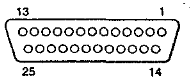
リモート端子（PARALLEL IN）について

リモート端子の機能

本機では、REMOTE(リモート)端子を使用して、外部からクロスポイントの設定を行うことができます。
ただし、設定できるのは入力1CH~16(8)CH、出力1CH~8CHまでとなり、OFFにすることはできません。

リモート端子のピン配列

REMOTE端子にはD-SUB 25ピンコネクター(メス)を使用しています。
ピン配列および接続は次のようになります。



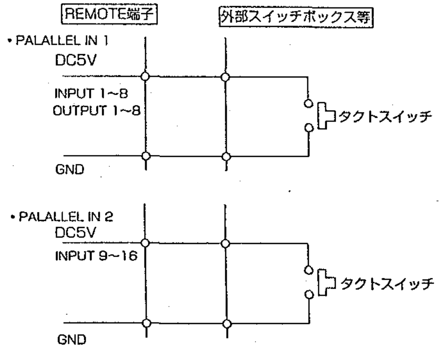
PVS-1680Sの場合

PARALLEL IN 1				PARALLEL IN 2			
ピンNo.	名称	ピンNo.	名称	ピンNo.	名称	ピンNo.	名称
1	GND	14	GND	1	GND	14	GND
2	IN 1	15	IN 2	2	IN 9	15	IN 10
3	IN 3	16	IN 4	3	IN 11	16	IN 12
4	IN 5	17	IN 6	4	IN 13	17	IN 14
5	IN 7	18	IN 8	5	IN 15	18	IN 16
6	OUT 1	19	OUT 2	6	NC	19	NC
7	OUT 3	20	OUT 4	7	NC	20	NC
8	OUT 5	21	OUT 6	8	NC	21	NC
9	OUT 7	22	OUT 8	9	NC	22	NC
10	GND	23	GND	10	GND	23	GND
11	GND	24	GND	11	GND	24	GND
12	GND	25	GND	12	GND	25	GND
13	GND			13	GND		

- PVS-880SのPALALLEL IN端子のピン配列は、PVS-1680SのPALALLEL IN 1端子と同一になります。

接続回路例

REMOTE端子はAV入力16(8)チャンネル、出力8チャンネル分を別々に装備しており、各入出力を指定する事で、クロスポイントを作ります。
また、各チャンネルの端子はDC5Vにプルアップされていますので、各部から電圧を加える必要はありません。



ご注意

- 外部スイッチは必ずタクトスイッチ等のノンロック型をお使いください。ロック型スイッチをご使用になると、誤動作、故障の原因となります。
- ご使用されるケーブル長は50m以下でお使いください。

操作方法

REMOTE端子を使用してクロスポイントの設定を行う場合は、本体前面パネルのクロスポイントボタンのようなダイレクトプッシュ式でなく、入力、出力チャンネルボタンをそれぞれ選んで設定するダブルアクション方式になります。
実際の操作は次のようになります。

1 希望する入力チャンネル、または出力チャンネルボタンを押します。

2 1で押したボタンが入力であれば出力チャンネルボタンを、1で押したボタンが出力であれば入力チャンネルボタンを押します。
この時点でクロスポイントが決定します。

ご注意

最初のボタンを押してから5秒以内に次のボタンを押さないと、自動的に最初のボタンを押す直前の状態に戻ります。

最初に押したチャンネルを変更したい場合は、同じ入力または出力チャンネルグループであれば、もう一度押せば変更できます。

RS-232C端子について

本機は、RS-232C端子を使用して、システムコントローラーSRP-C5000Aやパーソナルコンピューターなどのリモート端子を持つ機器からコントロールすることができます。

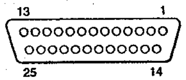
データフォーマット

データフォーマットは次のように設定されています。
コミュニケーションプロトコルについては、別冊の「PVS-1680S/PVS-880Sインターフェースマニュアル」を用意してあります。必要な場合はお近くのソニーの営業所宛にご連絡ください。

モード：	非同期
データ長：	8ビット
ボーレート：	9600 bps
パリティチェック：	奇数パリティ
ストップビット長：	1ビット
ビット順：	最下位ビットより送出

コネクターピン配列

RS-232C端子のコネクターにはD-SUB 25ピンコネクターを使用しています。
ピン配列は次のようになります。



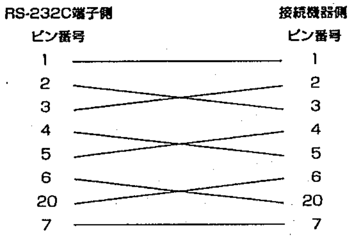
ピンNo.	名称	機能
1	FG	フレームグランド
2	TXD	送信データ
3	RXD	受信データ
4	RTS	送信要求
5	CTS	送信可
6	DSR	データセットレディ
7	SG	シグナルグランド
20	DTR	データ端末レディ

接続方法

RS-232C端子と外部機器の接続には次の仕様を持つケーブルをお使いください。

コネクター：	D-SUB 25ピン　オス
ケーブル：	データ通信用多芯シールドケーブル（8芯以上）
推奨ケーブル：	カナレ電気(株) D102-12ALV
ケーブル長：	15m以下

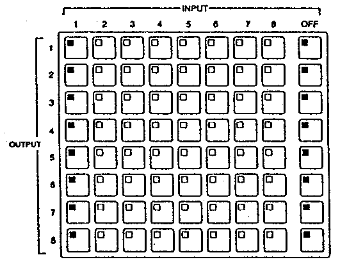
接続機器との結線は次のようにしてください。


RS-232C端子側
ピン番号
1
2
3
4
5
6
20
7
接続機器側
ピン番号
1
2
3
4
5
6
20
7

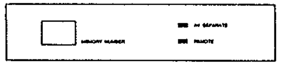
AVセパレート機能について

この機能はRS-232C端子によるリモート操作時にのみ有効です。
通常、クロスポイントを切り換えるときは、音声信号と映像信号は一緒に切り換わりますが、AVセパレート機能を使うと音声信号と映像信号を別々に切り換えることができます。例えば、プロジェクターに画像を出しながら、CDプレーヤー等からのBGMを流すというようなアプリケーションが簡単に実現できます。
各表示部は次のようになります。

例）各出力チャンネルにINPUT 1の音声だけ流し、映像を消したいとき


INPUT
1
2
3
4
5
6
7
8
OFF
OUTPUT
1
2
3
4
5
6
7
8

AVセパレートされた出力チャンネルは2つ同時に点灯します。


MEMORY NUMBER
AV SEPARATE
REMOTE

AV SEPARATEインジケーター、REMOTEインジケーターが点灯します。

ご注意
AVセパレートされた出力チャンネルのインジケーターは2つ同時に点灯しますが、映像、音声の区別が付きませんので、ホスト側（AVコントローラー／コンピューター）で管理してください。

SECTION 2
EXPLANATION OF IC TERMINALS

IC601 μ PD78P054GC-067-3B9

Pin No.	Pin name	I/O	Description
1	$\overline{\text{LOCK}}$	O	LOCK switch input. "L" : LOCK
2	LEDCS	O	LED data latch.
3	SYSPW	O	System power ON/OFF.
4	AVss	–	Connect to ground.
5	$\overline{\text{A. GATE}}$	O	Serial control for video, S video and audio circuit.
6	$\overline{\text{TEST}}$	I	Test mode terminal. "L" : Test mode
7	AVREF1	–	Connect to 5V.
8	RXDB	I	RS-232C data input terminal.
9	TXDB	O	RS-232C data output terminal.
10	SSEL	O	S video chip select.
11	RTSB	O	Data transmit request to RS-232C.
12	DTRB	O	Ready signal output to RS-232C.
13	$\overline{\text{PWRKY}}$	I	Power key input.
14	DSRB	I	Ready signal input from RS-232C.
15	$\overline{\text{RESET}}$	O	Reset signal output.
16	SIDI	I	Serial data input for test mode.
17	SIDO	O	Serial data output.
18	SICK	I/O	Serial clock output. Test mode : input
19	$\overline{\text{VDCS1}}$	O	Chip select output to video select IC (IC409).
20	$\overline{\text{VDCS2}}$	O	Chip select output to video select IC (IC410).
21	$\overline{\text{VDCS3}}$	O	Chip select output to video select IC (IC503).
22	$\overline{\text{VDCS4}}$	O	Chip select output to video select IC (IC504).
23	ASB1	O	Chip select bit 1 output to audio and S video.
24	ASB2	O	Chip select bit 2 output to audio and S video.
25	ASB3	O	Chip select bit 3 output to audio and S video.
26	ASEL	O	Chip select output to audio.
27	$\overline{\text{MUT1}}$	O	Mute signal output to audio 1-CH.
28	$\overline{\text{MUT2}}$	O	Mute signal output to audio 2-CH.
29	$\overline{\text{MUT3}}$	O	Mute signal output to audio 3-CH.
30	$\overline{\text{MUT4}}$	O	Mute signal output to audio 4-CH.
31	$\overline{\text{MUT5}}$	O	Mute signal output to audio 5-CH.
32	$\overline{\text{MUT6}}$	O	Mute signal output to audio 6-CH.
33	Vss	–	Connect to ground.
34	$\overline{\text{MUT7}}$	O	Mute signal output to audio 7-CH.
35	$\overline{\text{MUT8}}$	O	Mute signal output to audio 8-CH.
36	$\overline{\text{PIB1}}$	I	PI/O bit 1 input.
37	$\overline{\text{PIB2}}$	I	PI/O bit 2 input.
38	$\overline{\text{PIB3}}$	I	PI/O bit 3 input.
39	$\overline{\text{PIB4}}$	I	PI/O bit 4 input.
40	$\overline{\text{PRIB}}$	I	PI/O priority bit input.

Pin No.	Pin name	I/O	Description
41	$\overline{\text{PINCE}}$	I/O	PI/O input or output select and ID input.
42	LEDHS	O	LED matrix HI-data lacth.
43	LED9	O	LED matrix data bit 9.
44	LED1	O	LED matrix data bit 1.
45	LED2	O	LED matrix data bit 2.
46	LED3	O	LED matrix data bit 3.
47	LED4	O	LED matrix data bit 4.
48	LED5	O	LED matrix data bit 5.
49	LED6	O	LED matrix data bit 6.
50	LED7	O	LED matrix data bit 7.
51	LED8	O	LED matrix data bit 8.
52	$\overline{\text{KDT1}}$	I	Key matrix data bit 1.
53	$\overline{\text{KDT2}}$	I	Key matrix data bit 2.
54	$\overline{\text{KDT3}}$	I	Key matrix data bit 3.
55	$\overline{\text{KDT4}}$	I	Key matrix data bit 4.
56	$\overline{\text{KDT5}}$	I	Key matrix data bit 5.
57	$\overline{\text{KDT6}}$	I	Key matrix data bit 6.
58	$\overline{\text{KDT7}}$	I	Key matrix data bit 7.
59	$\overline{\text{KDT8}}$	I	Key matrix data bit 8.
60	$\overline{\text{RESET}}$	I	Reset input.
61	$\overline{\text{PFI}}$	I	Power failure detect.
62	$\overline{\text{VSYNC}}$	I	V SYNC signal input.
63	CTSB	I	Transmit request signal input from micom.
64	KSTB1	O	Key matrix strobe select. Data bit 1.
65	KSTB2	O	Key matrix strobe select. Data bit 2.
66	KSTB3	O	Key matrix strobe select. Data bit 3.
67	$\overline{\text{KDT9}}$	I	Key matrix data bit 9.
68	VDD	–	Power supply (5V).
69	X2	–	System clock (4MHz).
70	X1	–	System clock (4MHz).
71	IC	–	Connect to ground.
72	XT2	–	Not used (Open).
73	$\overline{\text{KDT10}}$	I	Key matrix data bit 10.
74	AVDD	–	Connect to power supply (5V).
75	AVREF0	–	Connect to ground.
76	KSTCE	O	Key matrix strobe enable.
77	KDHSL	O	Key matrix HI-data select.
78	MRCS	O	EEPROM chip select.
79	MRDI	I	Data read out from EEPROM.
80	$\overline{\text{PWLED}}$	O	Power LED drive. "L" : ON "H" : STANDBY

【IC端子説明】

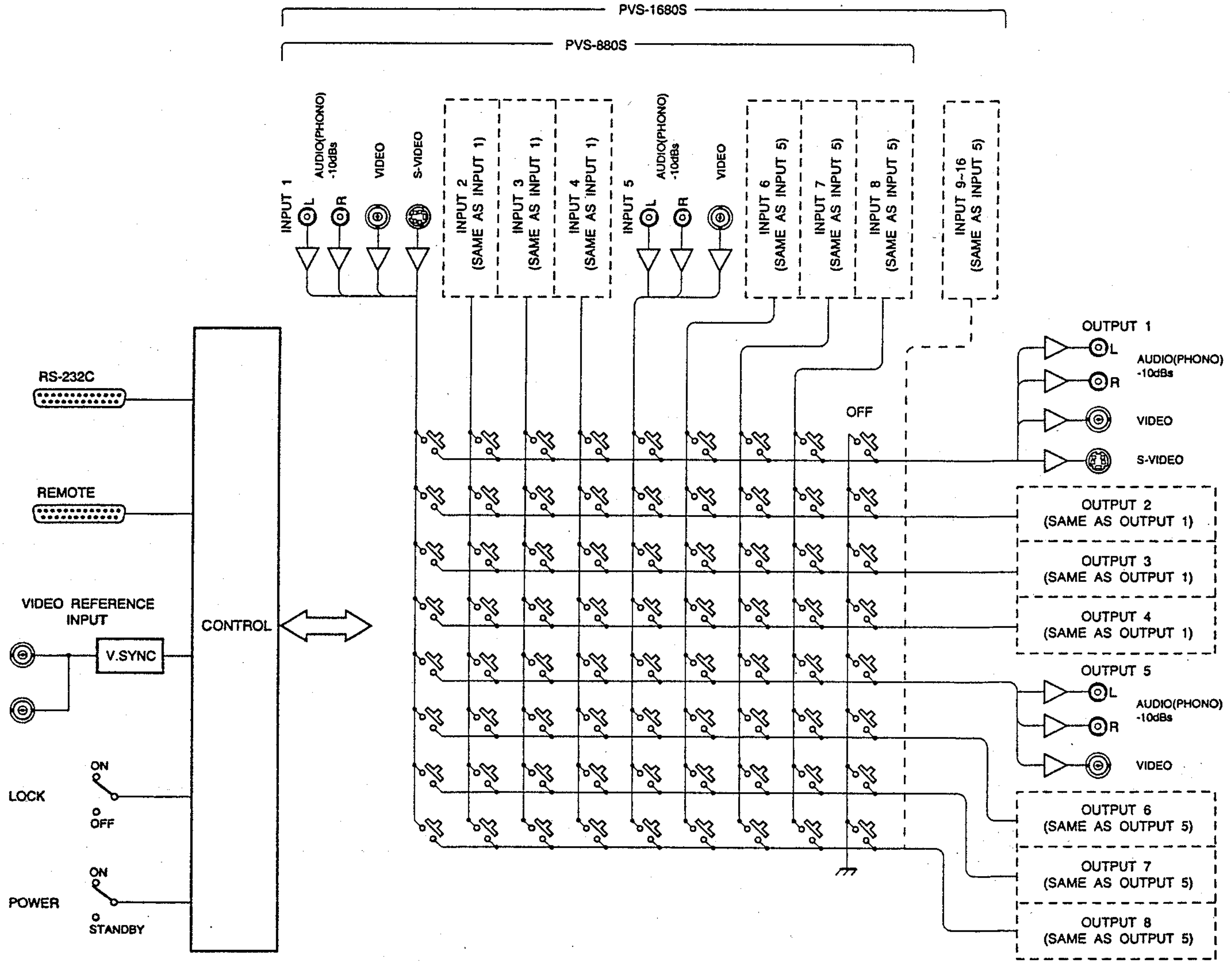
IC601 μPD78P054GC-067-3B9

端子番号	端子名称	I／O	端子説明
1	$\overline{\mathrm{LOCK}}$	O	LOCK SW入力。“L”：LOCK
2	LEDCS	O	7セグメントLEDデータラッチ（ハイパルス）。
3	SYSPW	O	ビデオ、オーディオ回路、電源制御。
4	AVss	－	グラウンドに接続。
5	$\overline{\mathrm{A.\ GATE}}$	O	ビデオ、Sビデオ、オーディオ回路シリアル制御。
6	$\overline{\mathrm{TEST}}$	I	リセット時“L”にてテストモードに入る。
7	AVREF1	－	5Vに接続。
8	RXDB	I	RS-232Cのデータ受信ポート。
9	TXDB	O	RS-232Cのデータ送信ポート。
10	SSEL	O	S-ビデオのチップセレクト。
11	RTSB	O	RS-232Cのコンピュータへの送信要求。
12	DTRB	O	RS-232Cのコンピュータへのレディ信号。
13	$\overline{\mathrm{PWRKY}}$	I	POWERキー入力。
14	DSRB	I	RS-232Cのコンピュータよりのレディ信号。
15	$\overline{\mathrm{RESET}}$	O	リセット信号出力。
16	SIDI	I	シリアル入力データ（テストモード時使用）。
17	SIDO	O	シリアル出力データ。
18	SICK	I／O	シリアルクロック（テストモード時以外は出力）。
19	$\overline{\mathrm{VDCS1}}$	O	ビデオセレクトIC（IC409）チップセレクト。
20	$\overline{\mathrm{VDCS2}}$	O	ビデオセレクトIC（IC410）チップセレクト。
21	$\overline{\mathrm{VDCS3}}$	O	ビデオセレクトIC（IC503）チップセレクト。
22	$\overline{\mathrm{VDCS4}}$	O	ビデオセレクトIC（IC504）チップセレクト。
23	ASB1	O	オーディオ、S-ビデオ用チップセレクトビット1。
24	ASB2	O	オーディオ、S-ビデオ用チップセレクトビット2。
25	ASB3	O	オーディオ、S-ビデオ用チップセレクトビット3。
26	ASEL	O	オーディオのチップセレクト。
27	$\overline{\mathrm{MUT1}}$	O	オーディオOUT 1chのミュート信号出力。
28	$\overline{\mathrm{MUT2}}$	O	オーディオOUT 2chのミュート信号出力。
29	$\overline{\mathrm{MUT3}}$	O	オーディオOUT 3chのミュート信号出力。
30	$\overline{\mathrm{MUT4}}$	O	オーディオOUT 4chのミュート信号出力。
31	$\overline{\mathrm{MUT5}}$	O	オーディオOUT 5chのミュート信号出力。
32	$\overline{\mathrm{MUT6}}$	O	オーディオOUT 6chのミュート信号出力。
33	Vss	－	グラウンドに接続。
34	$\overline{\mathrm{MUT7}}$	O	オーディオOUT 7chのミュート信号出力。
35	$\overline{\mathrm{MUT8}}$	O	オーディオOUT 8chのミュート信号出力。
36	$\overline{\mathrm{PIB1}}$	I	PI／O入力ビット1。
37	$\overline{\mathrm{PIB2}}$	I	PI／O入力ビット2。
38	$\overline{\mathrm{PIB3}}$	I	PI／O入力ビット3。
39	$\overline{\mathrm{PIB4}}$	I	PI／O入力ビット4。
40	$\overline{\mathrm{PRIB}}$	I	PI／O入力プライオリティビット。

端子番号	端子名称	I／O	端子説明
41	$\overline{\text{PINCE}}$	I／O	PI／O IN、OUTセレクト及びID入力。
42	LEDHS	O	LEDマトリクスハイデータラッチ。
43	LED9	O	LEDマトリクスデータビット9。
44	LED1	O	LEDマトリクスデータビット1。
45	LED2	O	LEDマトリクスデータビット2。
46	LED3	O	LEDマトリクスデータビット3。
47	LED4	O	LEDマトリクスデータビット4。
48	LED5	O	LEDマトリクスデータビット5。
49	LED6	O	LEDマトリクスデータビット6。
50	LED7	O	LEDマトリクスデータビット7。
51	LED8	O	LEDマトリクスデータビット8。
52	$\overline{\text{KDT1}}$	I	キーマトリクスデータビット1。
53	$\overline{\text{KDT2}}$	I	キーマトリクスデータビット2。
54	$\overline{\text{KDT3}}$	I	キーマトリクスデータビット3。
55	$\overline{\text{KDT4}}$	I	キーマトリクスデータビット4。
56	$\overline{\text{KDT5}}$	I	キーマトリクスデータビット5。
57	$\overline{\text{KDT6}}$	I	キーマトリクスデータビット6。
58	$\overline{\text{KDT7}}$	I	キーマトリクスデータビット7。
59	$\overline{\text{KDT8}}$	I	キーマトリクスデータビット8。
60	$\overline{\text{RESET}}$	I	マイコンリセット。
61	$\overline{\text{PFI}}$	I	停電検出信号。
62	$\overline{\text{VSYNC}}$	I	映像垂直同期信号。(ローエッジに同期)
63	CTSB	I	マイコンよりの送信要求信号。
64	KSTB1	O	キーマトリクスストローブセレクトデータビット1。
65	KSTB2	O	キーマトリクスストローブセレクトデータビット2。
66	KSTB3	O	キーマトリクスストローブセレクトデータビット3。
67	$\overline{\text{KDT9}}$	I	キーマトリクスデータビット9。
68	VDD	−	5Vに接続。
69	X2	−	システムクロック (4MHz)。
70	X1	−	システムクロック (4MHz)。
71	IC	−	グラウンドに接続。
72	XT2	−	未使用 (オープン)。
73	$\overline{\text{KDT10}}$	I	キーマトリクスデータビット10。
74	AVDD	−	VDDに接続。
75	AVREF0	−	グラウンドに接続。
76	KSTCE	O	キーマトリクスストローブイネーブル。
77	KDHSL	O	キーマトリクスハイデータセレクト。
78	MRCS	O	EEPROMチップセレクト。
79	MRDI	I	EEPROMからデータを読み込む。
80	$\overline{\text{PWLED}}$	O	POWER LED信号。POWER ON “L”、STANDBY “H”

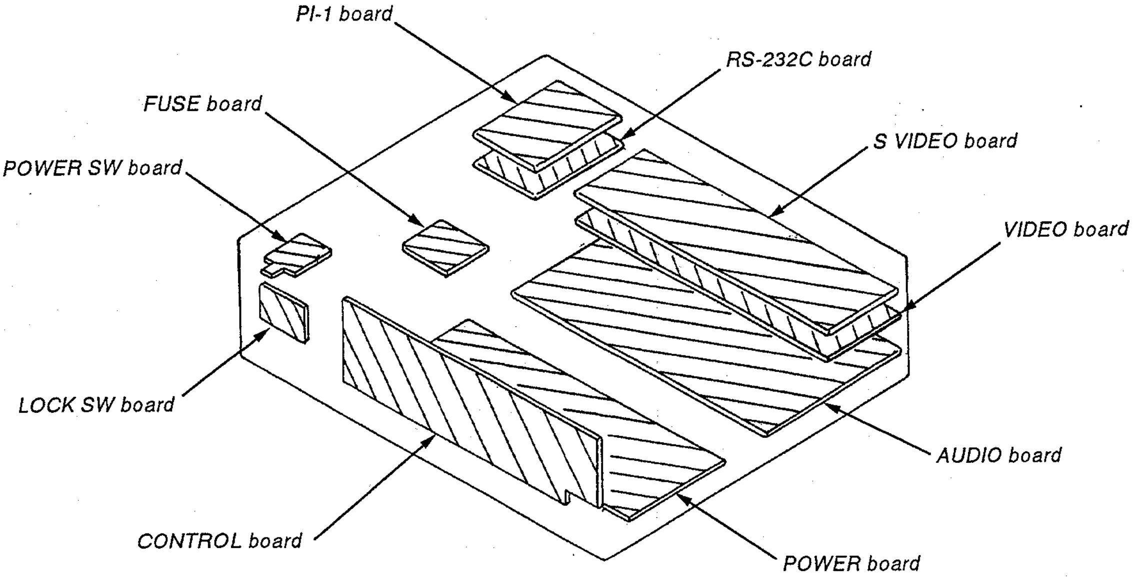
SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM

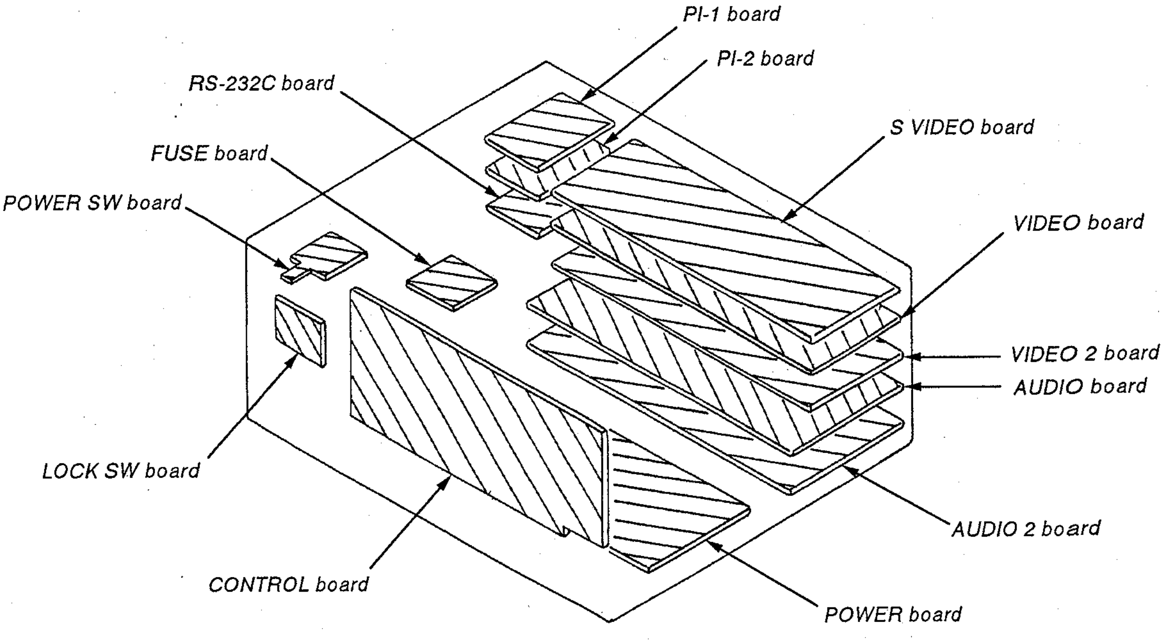

PVS-1680S
PVS-880S
INPUT 1
L
R
AUDIO(PHONO) -10dBs
VIDEO
S-VIDEO
INPUT 2 (SAME AS INPUT 1)
INPUT 3 (SAME AS INPUT 1)
INPUT 4 (SAME AS INPUT 1)
INPUT 5
L
R
AUDIO(PHONO) -10dBs
VIDEO
INPUT 6 (SAME AS INPUT 5)
INPUT 7 (SAME AS INPUT 5)
INPUT 8 (SAME AS INPUT 5)
INPUT 9~16 (SAME AS INPUT 5)
RS-232C
REMOTE
VIDEO REFERENCE INPUT
V.SYNC
CONTROL
LOCK
ON
OFF
POWER
ON
STANDBY
OFF
OUTPUT 1
L
R
AUDIO(PHONO) -10dBs
VIDEO
S-VIDEO
OUTPUT 2 (SAME AS OUTPUT 1)
OUTPUT 3 (SAME AS OUTPUT 1)
OUTPUT 4 (SAME AS OUTPUT 1)
OUTPUT 5
L
R
AUDIO(PHONO) -10dBs
VIDEO
OUTPUT 6 (SAME AS OUTPUT 5)
OUTPUT 7 (SAME AS OUTPUT 5)
OUTPUT 8 (SAME AS OUTPUT 5)

3-2. CIRCUIT BOARDS LOCATION

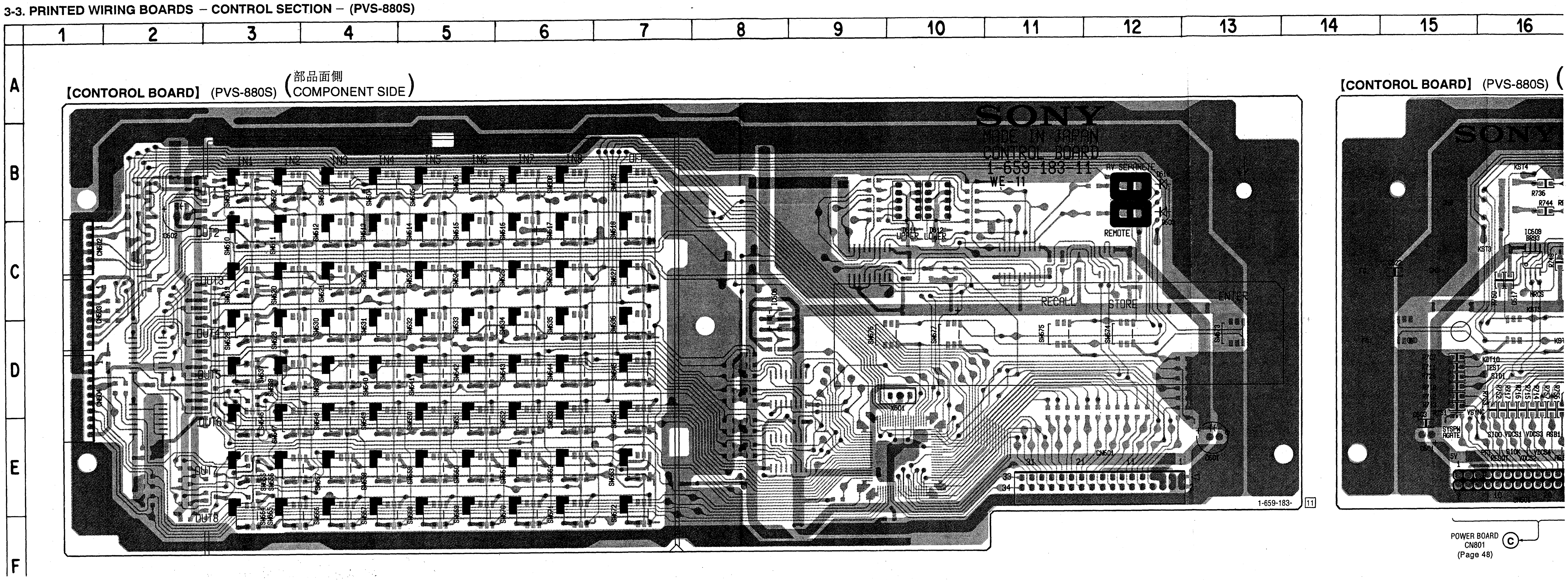
PVS-880S :


PI-1 board
RS-232C board
FUSE board
S VIDEO board
POWER SW board
VIDEO board
LOCK SW board
AUDIO board
CONTROL board
POWER board

PVS-1680S/1680S/1 :


PI-1 board
PI-2 board
RS-232C board
S VIDEO board
FUSE board
POWER SW board
VIDEO board
VIDEO 2 board
AUDIO board
LOCK SW board
AUDIO 2 board
CONTROL board
POWER board

3-3. PRINTED WIRING BOARDS – CONTROL SECTION – (PVS-880S)


1
2
3
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5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
【CONTOROL BOARD】 (PVS-880S) (部品面側 COMPONENT SIDE)
SONY
MADE IN JAPAN
CONTROL BOARD
1-659-183-11
WE-11
AV SEPARATE
REMOTE
UPPER
LOWER
RECALL
STORE
ENTER
CN601
1-659-183-
11
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
OUT8
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
【CONTOROL BOARD】 (PVS-880S)
SONY
IC609
POWER BOARD
CN801
(Page 48)
C

Note:

- ○— : parts extracted from the component side.
- ▨ : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated)

Caution :

Pattern face side : Parts on the pattern face side seen from
(Conductor Side) the pattern face are indicated.
Parts face side : Parts on the parts face side seen from the
(Component side) parts face are indicated.

● プリント図ノート

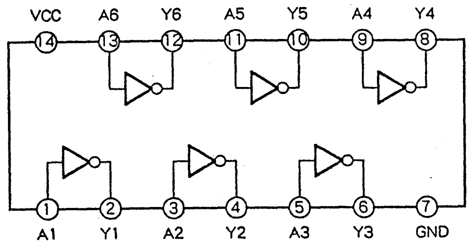
- ○— : 部品面側取付のリード線。
- ▨ : 見ている面側のパターン。
  (他のパターンについては、表示されていません。)

注意

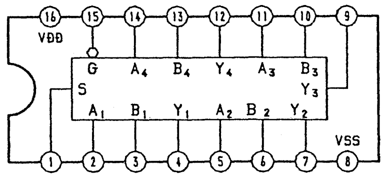
パターン面側 : パターン面より見たパターン面側の部品が記載されています。
部 品 面 側 : 部品面より見た部品面側の部品が記載されています。

• IC BLOCK DIAGRAMS (CONTROL SECTION)

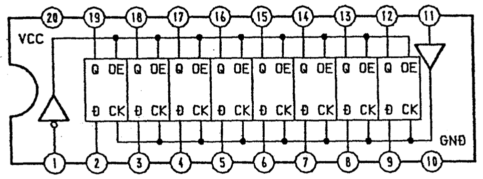
IC602 SN74HC04ANS


VCC
A6
Y6
A5
Y5
A4
Y4
14
13
12
11
10
9
8
1
2
3
4
5
6
7
A1
Y1
A2
Y2
A3
Y3
GND

IC603, 604 SN74HC157ANS


16
15
14
13
12
11
10
9
VDD
G
A4
B4
Y4
A3
B3
S
Y3
A1
B1
Y1
A2
B2
Y2
VSS
1
2
3
4
5
6
7
8

IC610 SN74HC574ANS


20
19
18
17
16
15
14
13
12
11
VCC
Q OE
D CK
GND
1
2
3
4
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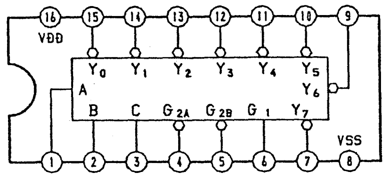
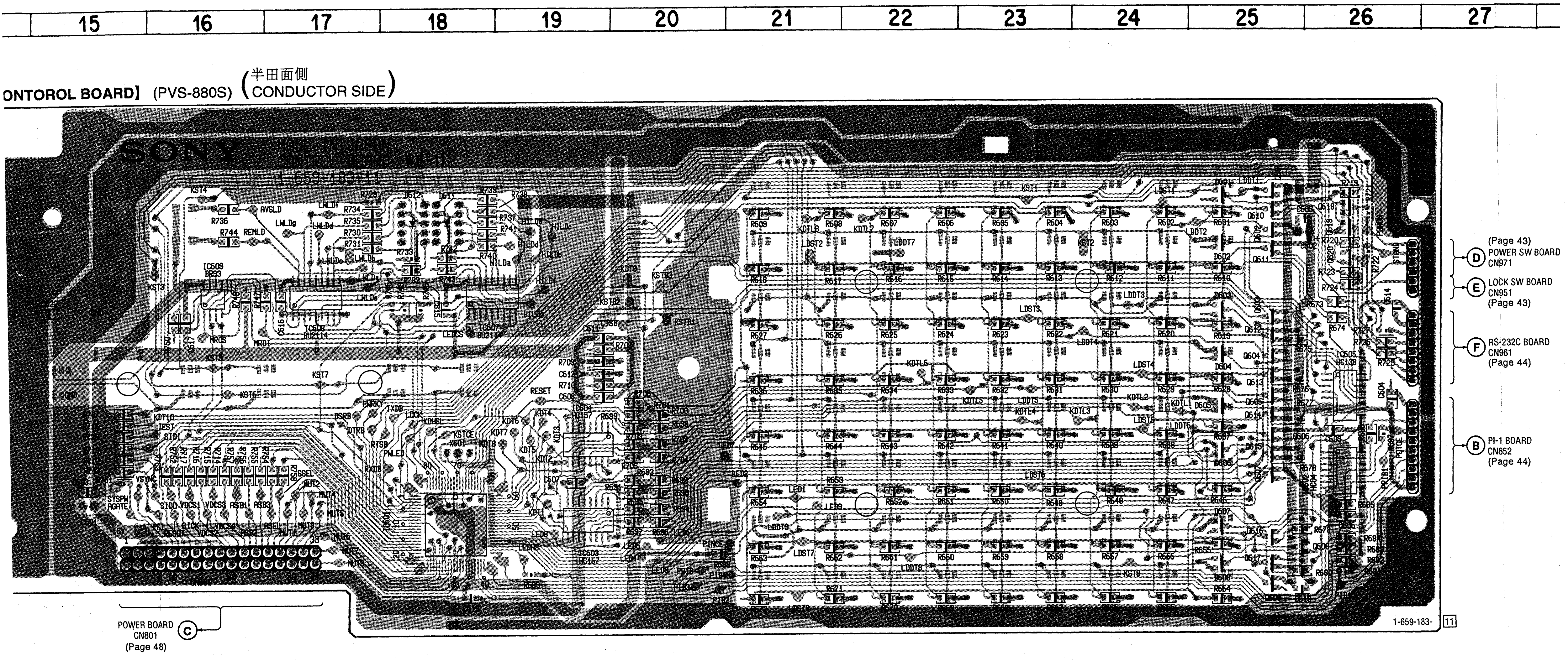
10

IC605 SN74HC138ANS


16
15
14
13
12
11
10
9
VDD
Y0
Y1
Y2
Y3
Y4
Y5
A
Y6
B
C
G2A
G2B
G1
Y7
VSS
1
2
3
4
5
6
7
8

ONTOROL BOARD] (PVS-880S) (半田面側 CONDUCTOR SIDE)


15
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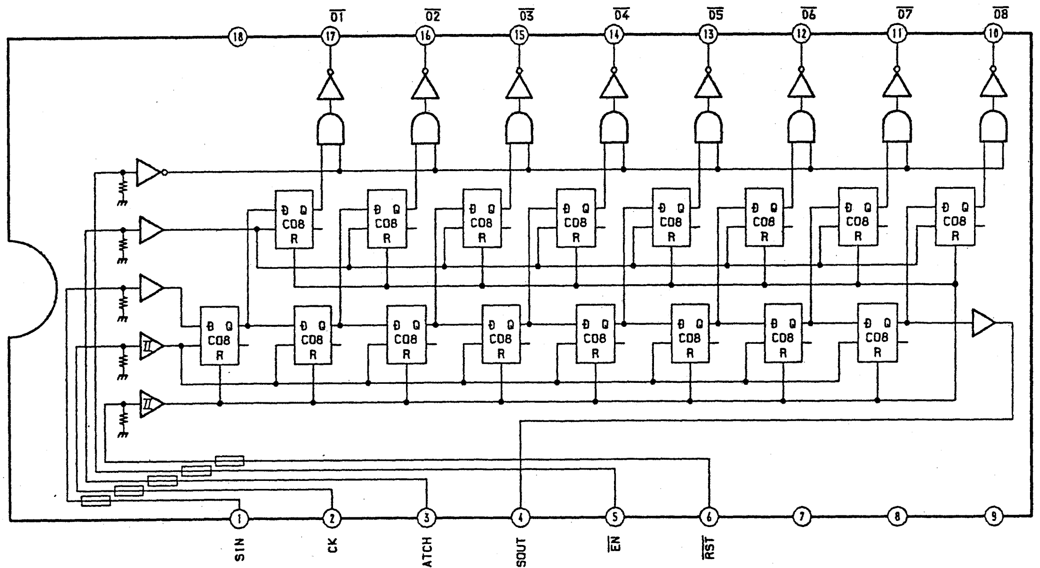
27
SONY
MADE IN JAPAN
CONTROL BOARD
1-659-183-11
(Page 43) POWER SW BOARD CN971
LOCK SW BOARD CN951 (Page 43)
RS-232C BOARD CN961 (Page 44)
PI-1 BOARD CN852 (Page 44)
POWER BOARD CN801 (Page 48)
1-659-183- 11

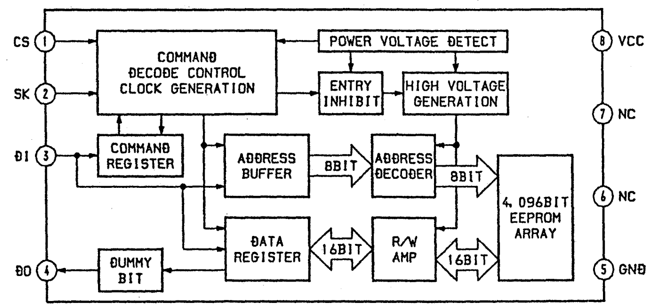
7ANS

10
9
A3
B3
Y3
Y2
VSS
7
8
10
9
Y5
Y6
Y7
VSS
7
8

IC607, 608 BU2114F-E2


18
17
16
15
14
13
12
11
10
O1
O2
O3
O4
O5
O6
O7
O8
D Q
C08
R
1
2
3
4
5
6
7
8
9
SIN
CK
LATCH
SOUT
EN
RST

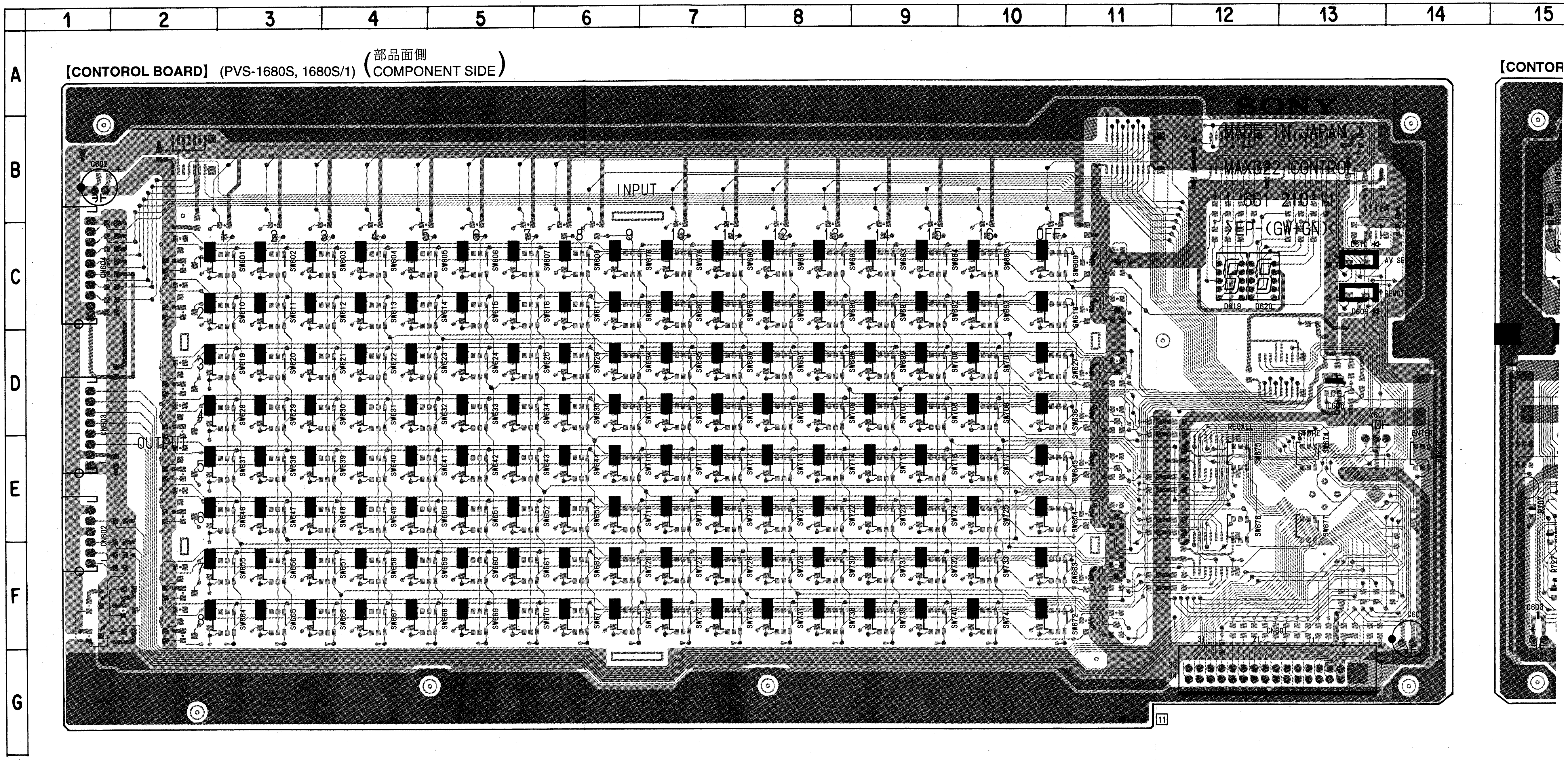
IC609 XL93LC66RF


CS 1
SK 2
DI 3
DO 4
8 VCC
7 NC
6 NC
5 GND
COMMAND DECODE CONTROL CLOCK GENERATION
POWER VOLTAGE DETECT
ENTRY INHIBIT
HIGH VOLTAGE GENERATION
COMMAND REGISTER
ADDRESS BUFFER
8BIT
ADDRESS DECODER
8BIT
4,096BIT EEPROM ARRAY
DATA REGISTER
16BIT
R/W AMP
16BIT
DUMMY BIT

● **SEMICONDUCTOR LOCATION**

Ref. No.	Location
D601	B-25
D602	C-25
D603	C-25
D604	D-25
D605	D-25
D606	D-25
D607	E-25
D608	E-25
D609	B-12
D610	B-12
D611	B-18
D612	B-18
IC601	E-18
IC602	E-26
IC603	E-19
IC604	D-19
IC605	D-26
IC606	C-8
IC607	C-18
IC608	C-17
IC609	C-16
Q601	B-25
Q602	B-25
Q603	C-25
Q604	D-25
Q605	D-25
Q606	D-25
Q607	E-25
Q608	E-26
Q609	F-25
Q610	B-25
Q611	C-25
Q612	C-25
Q613	D-25
Q614	D-25
Q615	D-25
Q616	E-25
Q617	E-25
Q618	B-26
Q619	B-26
Q620	C-26

3-4. PRINTED WIRING BOARDS – CONTROL SECTION – (PVS-1680S/1680S/1)



【CONTOROL BOARD】 (PVS-1680S, 1680S/1) (部品面側 COMPONENT SIDE)

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4
5
6
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8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
【CONTOR
SONY
MADE IN JAPAN
MAX822 CONTROL
1-661-210-11
EP (GW+GN)
INPUT
OUTPUT
OFF
C602
CN604
CN603
CN602
CN601
D619
D620
D610
D609
RECALL
STORE
ENTER
REMOTE
C601
11

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D601	C-27	D616	E-18	IC610	B-18	Q613	D-26	Q628	C-19
D602	C-26	D617	F-18			Q614	E-26	Q629	C-18
D603	D-27	D618	F-18			Q615	E-27	Q630	C-18
D604	D-27	D619	C-17	Q601	C-26	Q616	F-26	Q631	D-18
D605	E-27	D620	C-16	Q602	C-26	Q617	F-27	Q632	D-18
				Q603	C-25				
D606	E-27			Q604	C-25	Q618	F-27	Q633	E-18
D607	F-27	IC601	E-16	Q605	C-24	Q619	F-27	Q634	E-18
D608	F-27	IC602	B-26			Q620	F-27	Q635	F-18
D609	C-13	IC603	F-17	Q606	C-24	Q621	C-23	Q636	F-18
D610	C-13	IC604	E-17	Q607	C-23	Q622	C-22		
		IC605	D-16	Q608	C-23				
D611	C-18			Q609	C-18	Q623	C-21		
D612	C-18	IC606	D-13	Q610	C-27	Q624	C-21		
D613	D-18	IC607	B-17			Q625	C-20		
D614	D-18	IC608	B-16	Q611	C-27	Q626	C-20		
D615	E-18	IC609	C-15	Q612	D-26	Q627	C-19		

Note:

- ○— : parts extracted from the component side.
- ▨ : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated)

Caution :

Pattern face side : (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side : (Component side) Parts on the parts face side seen from the parts face are indicated.

● プリント図ノート

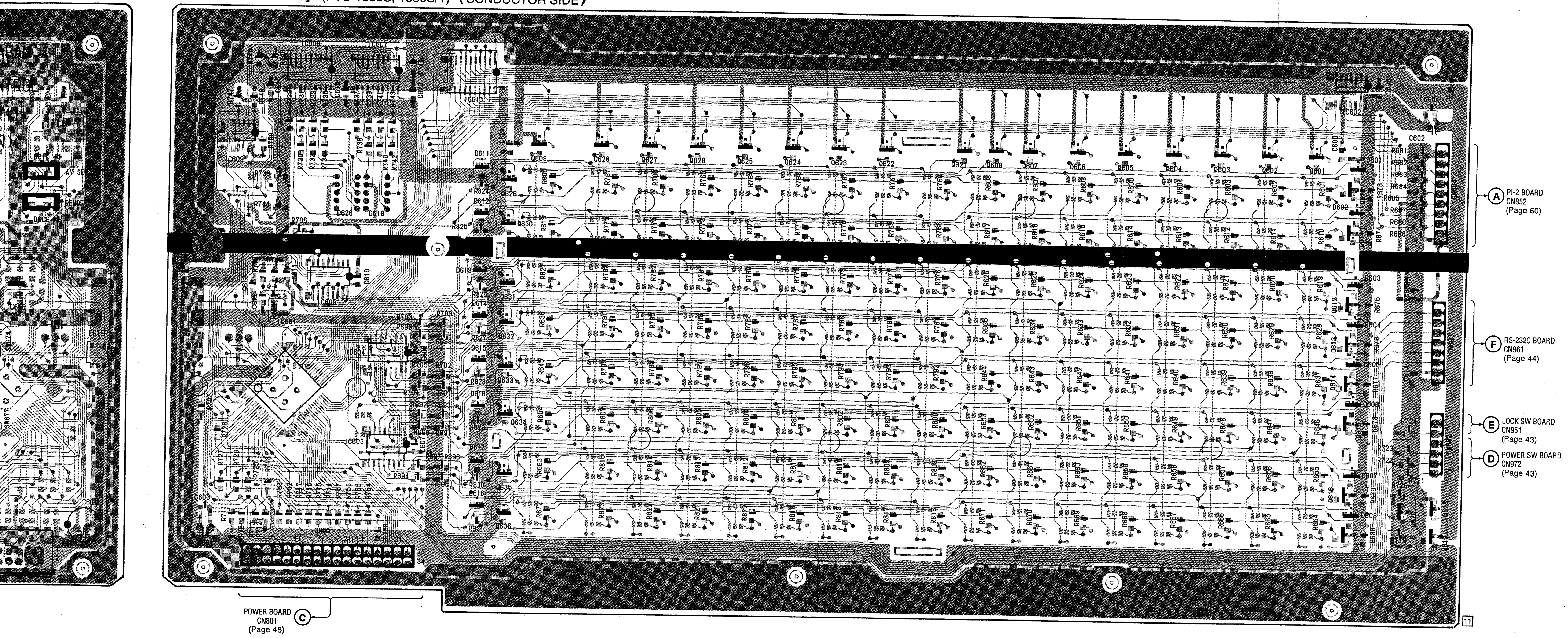
- ○—：部品面側取付のリード線。
- ▨ ：見ている面側のパターン。
  (他のパターンについては、表示されていません。)

注意

パターン面側 ： パターン面より見たパターン面側の部品が記載されています。
部品面側 ： 部品面より見た部品面側の部品が記載されています。

13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28

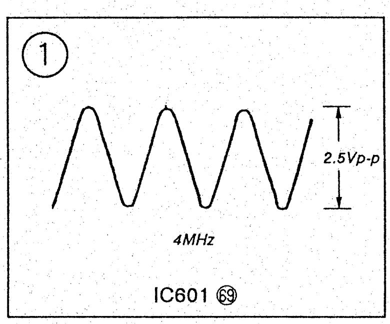
【CONTOROL BOARD】 (PVS-1680S, 1680S/1) (半田面側 CONDUCTOR SIDE)


Ⓐ PI-2 BOARD
CN852
(Page 60)
Ⓕ RS-232C BOARD
CN961
(Page 44)
Ⓔ LOCK SW BOARD
CN951
(Page 43)
Ⓓ POWER SW BOARD
CN972
(Page 43)
POWER BOARD
CN801
(Page 48)
Ⓒ
CN601
CN602
CN603
CN604
IC601
IC602
IC603
IC604
IC605
IC606
IC607
IC608
IC609
IC610
X601
AV SELECT
REMOTE
ENTER
1-661-210-
11

3-5. SCHEMATIC DIAGRAM – CONTROL SECTION –

- Refer to page 20 for IC Block Diagrams.

- **WAVEFORM**

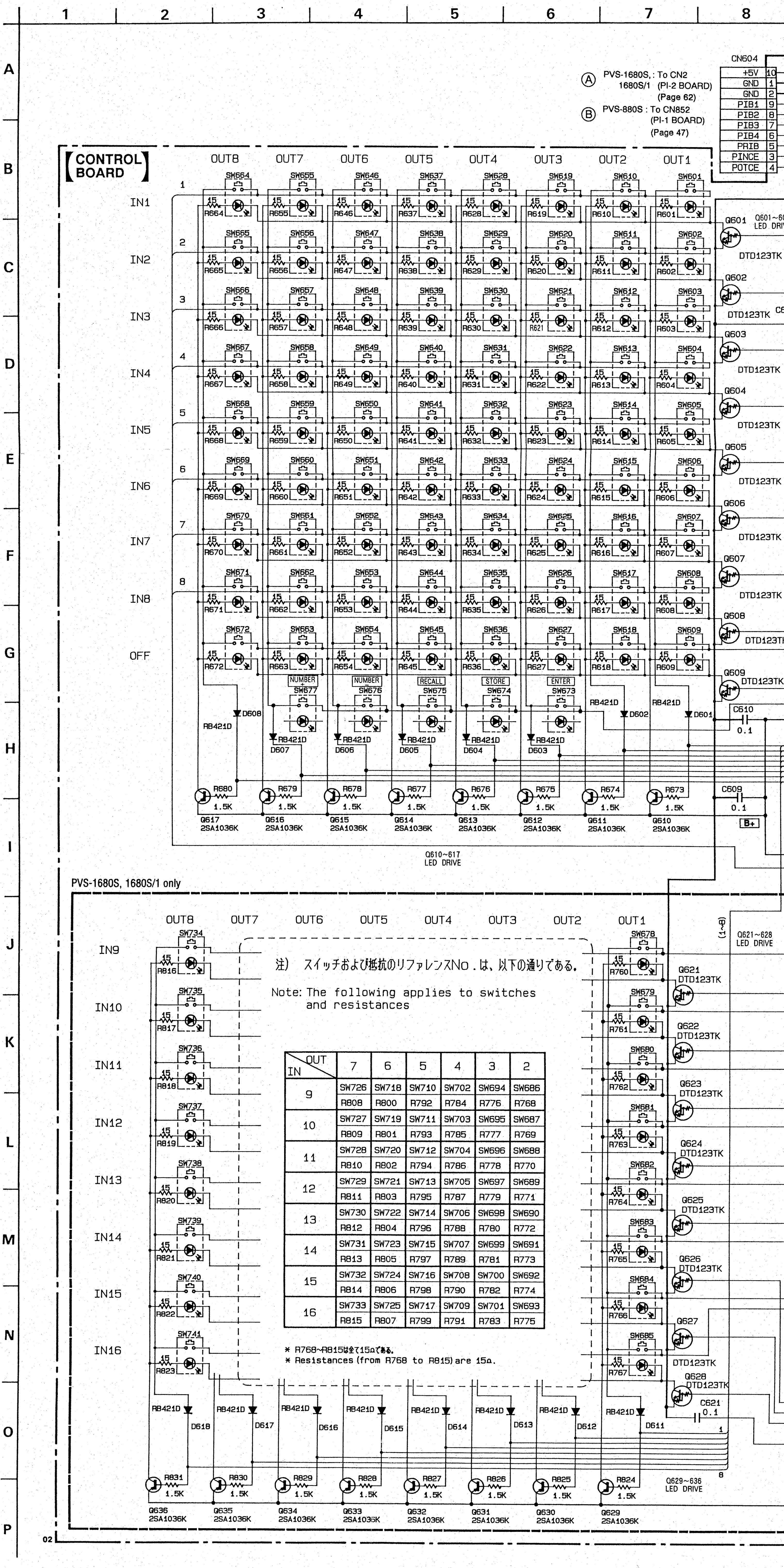


Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- B+ : B+ Line
- Voltages and waveform are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

● 回路図ノート

- ケミコン，タンタルを除くコンデンサーで，耐圧50V以下のものは，その耐圧を省略。単位はすべてμF（pはpF）。
- 抵抗で指示のないものは¼W以下を示す。単位はすべてΩ。
- B+ ：B＋ライン。
- 電圧および波形は，対アース間を無信号状態で測定。
- 電圧値は，テスター（入力インピーダンス 10MΩ）で測定した参考値。
- 波形図は，オシロスコープで測定した参考図。
- ○番号は波形図の照合番号。

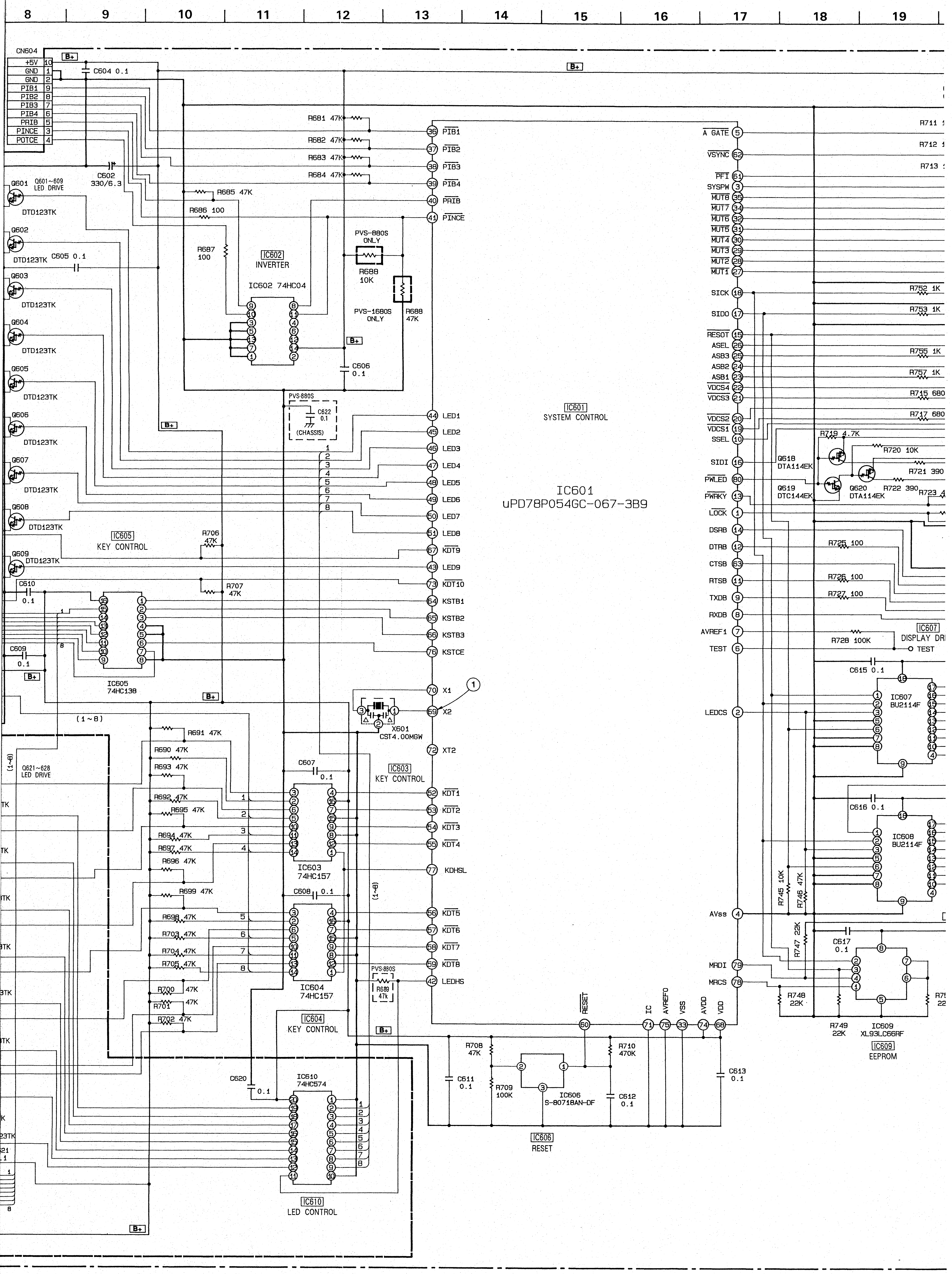

1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Ⓐ PVS-1680S, : To CN2
1680S/1 (PI-2 BOARD)
(Page 62)
Ⓑ PVS-880S : To CN852
(PI-1 BOARD)
(Page 47)
CN604
+5V 10
GND 1
GND 2
PIB1 9
PIB2 8
PIB3 7
PIB4 6
PRIB 5
PINCE 3
POTCE 4
CONTROL BOARD
OUT8
OUT7
OUT6
OUT5
OUT4
OUT3
OUT2
OUT1
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
OFF
NUMBER
SW677
NUMBER
SW676
RECALL
SW675
STORE
SW674
ENTER
SW673
RB421D
D601
D602
D603
D604
D605
D606
D607
D608
C610
0.1
C609
0.1
B+
Q601~609 LED DRIVE
DTD123TK
Q610~617
LED DRIVE
Q617 2SA1036K
Q616 2SA1036K
Q615 2SA1036K
Q614 2SA1036K
Q613 2SA1036K
Q612 2SA1036K
Q611 2SA1036K
Q610 2SA1036K
R673
R674
R675
R676
R677
R678
R679
R680
1.5K
PVS-1680S, 1680S/1 only
IN9
IN10
IN11
IN12
IN13
IN14
IN15
IN16
SW734
SW735
SW736
SW737
SW738
SW739
SW740
SW741
R816
R817
R818
R819
R820
R821
R822
R823
SW678
SW679
SW680
SW681
SW682
SW683
SW684
SW685
R760
R761
R762
R763
R764
R765
R766
R767
Q621 DTD123TK
Q622 DTD123TK
Q623 DTD123TK
Q624 DTD123TK
Q625 DTD123TK
Q626 DTD123TK
Q627
DTD123TK
Q628 DTD123TK
C621
0.1
Q621~628
LED DRIVE
(1~8)
D611
D612
D613
D614
D615
D616
D617
D618
R824
R825
R826
R827
R828
R829
R830
R831
Q629 2SA1036K
Q630 2SA1036K
Q631 2SA1036K
Q632 2SA1036K
Q633 2SA1036K
Q634 2SA1036K
Q635 2SA1036K
Q636 2SA1036K
Q629~636
LED DRIVE
02

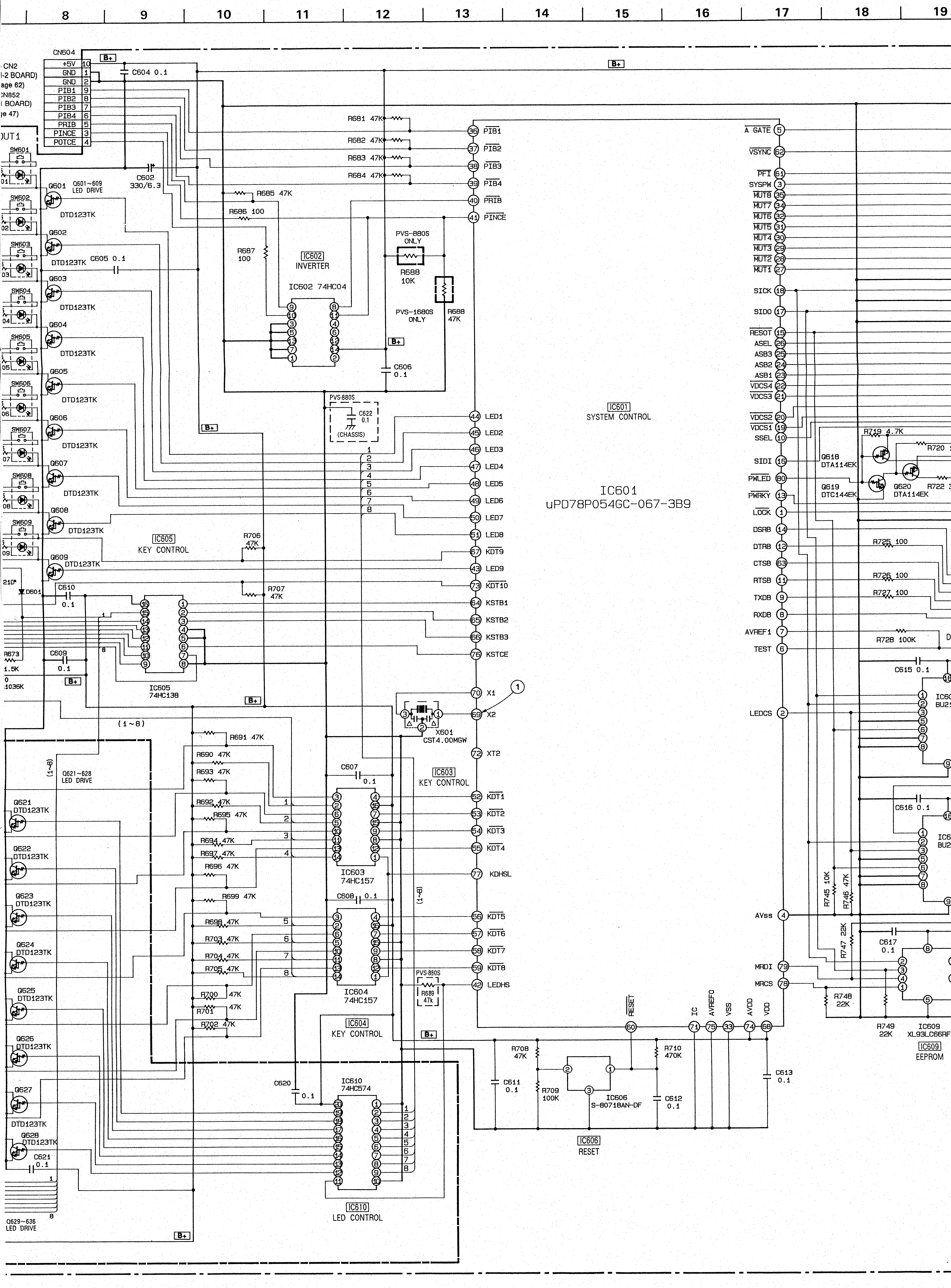
注）スイッチおよび抵抗のリファレンスNo．は、以下の通りである。

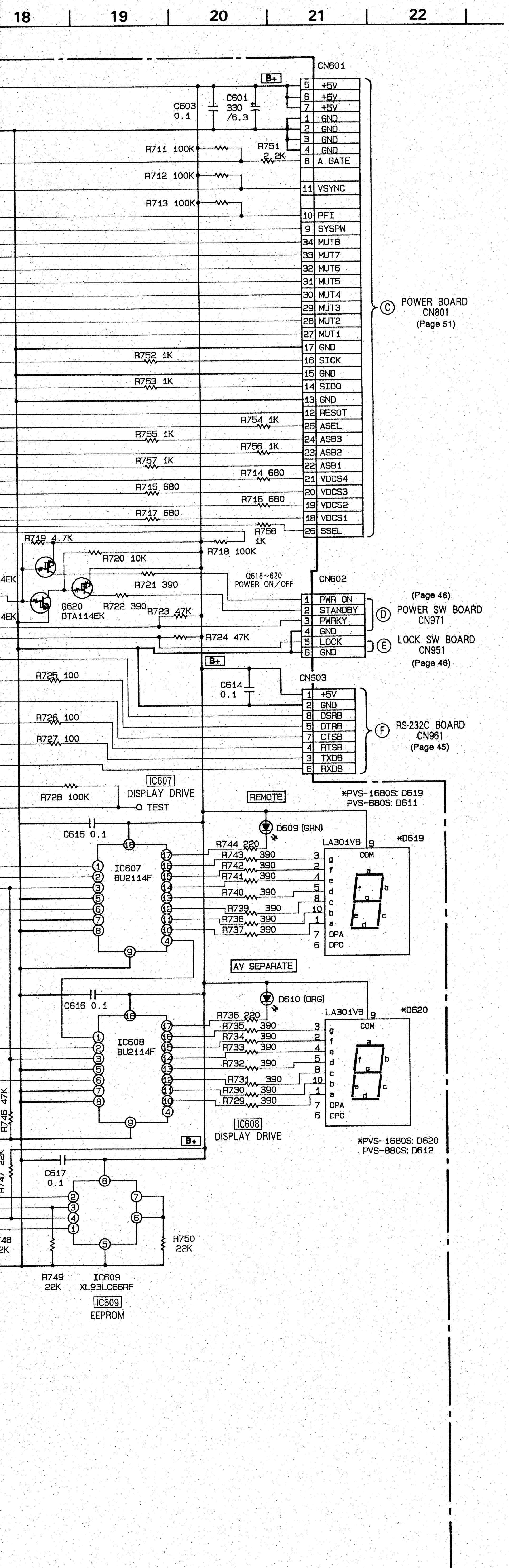
Note: The following applies to switches and resistances

IN \ OUT	7	6	5	4	3	2
9	SW726	SW718	SW710	SW702	SW694	SW686
	R808	R800	R792	R784	R776	R768
10	SW727	SW719	SW711	SW703	SW695	SW687
	R809	R801	R793	R785	R777	R769
11	SW728	SW720	SW712	SW704	SW696	SW688
	R810	R802	R794	R786	R778	R770
12	SW729	SW721	SW713	SW705	SW697	SW689
	R811	R803	R795	R787	R779	R771
13	SW730	SW722	SW714	SW706	SW698	SW690
	R812	R804	R796	R788	R780	R772
14	SW731	SW723	SW715	SW707	SW699	SW691
	R813	R805	R797	R789	R781	R773
15	SW732	SW724	SW716	SW708	SW700	SW692
	R814	R806	R798	R790	R782	R774
16	SW733	SW725	SW717	SW709	SW701	SW693
	R815	R807	R799	R791	R783	R775

＊ R768~R815は全て15Ωである。
* Resistances (from R768 to R815) are 15Ω.


8
9
10
11
12
13
14
15
16
17
18
19
CN604
+5V 10
GND 1
GND 2
PIB1 9
PIB2 8
PIB3 7
PIB4 6
PRIB 5
PINCE 3
POTCE 4
B+
C604 0.1
C602 330/6.3
Q601 Q601~609 LED DRIVE
DTD123TK
Q602
DTD123TK C605 0.1
Q603
DTD123TK
Q604
DTD123TK
Q605
DTD123TK
Q606
DTD123TK
Q607
DTD123TK
Q608
DTD123TK
Q609 DTD123TK
C610 0.1
C609 0.1
IC605 KEY CONTROL
IC605 74HC138
R706 47K
R707 47K
R681 47K
R682 47K
R683 47K
R684 47K
R685 47K
R686 100
R687 100
IC602 INVERTER
IC602 74HC04
PVS-880S ONLY
R688 10K
PVS-1680S ONLY
R688 47K
C606 0.1
PVS-880S
C622 0.1
(CHASSIS)
(1~8)
Q621~628 LED DRIVE
R691 47K
R690 47K
R693 47K
R692 47K
R695 47K
R694 47K
R697 47K
R696 47K
R699 47K
R698 47K
R703 47K
R704 47K
R705 47K
R700 47K
R701 47K
R702 47K
C607 0.1
IC603 KEY CONTROL
IC603 74HC157
C608 0.1
IC604 74HC157
IC604 KEY CONTROL
PVS-880S
R689 47k
X601 CST4.00MGW
C620 0.1
IC610 74HC574
IC610 LED CONTROL
IC601 SYSTEM CONTROL
IC601 uPD78P054GC-067-3B9
36 PIB1
37 PIB2
38 PIB3
39 PIB4
40 PRIB
41 PINCE
44 LED1
45 LED2
46 LED3
47 LED4
48 LED5
49 LED6
50 LED7
51 LED8
67 KDT9
43 LED9
73 KDT10
64 KSTB1
65 KSTB2
66 KSTB3
76 KSTCE
70 X1
69 X2
72 XT2
52 KDT1
53 KDT2
54 KDT3
55 KDT4
77 KDHSL
56 KDT5
57 KDT6
58 KDT7
59 KDT8
42 LEDHS
60 RESET
71 IC
75 AVREFO
33 VSS
74 AVDD
68 VDD
5 A GATE
62 VSYNC
61 PFI
3 SYSPW
35 MUT8
34 MUT7
32 MUT6
31 MUT5
30 MUT4
29 MUT3
28 MUT2
27 MUT1
18 SICK
17 SIDO
15 RESOT
26 ASEL
25 ASB3
24 ASB2
23 ASB1
22 VDCS4
21 VDCS3
20 VDCS2
19 VDCS1
10 SSEL
16 SIDI
80 PWLED
13 PWRKY
1 LOCK
14 DSRB
12 DTRB
63 CTSB
11 RTSB
9 TXDB
8 RXDB
7 AVREF1
6 TEST
2 LEDCS
4 AVss
79 MRDI
78 MRCS
R708 47K
R709 100K
C611 0.1
IC606 S-80718AN-DF
IC606 RESET
R710 470K
C612 0.1
C613 0.1
R711
R712
R713
R752 1K
R753 1K
R755 1K
R757 1K
R715 680
R717 680
R719 4.7K
R720 10K
R721 390
R722 390
R723
Q618 DTA114EK
Q619 DTC144EK
Q620 DTA114EK
R725 100
R726 100
R727 100
IC607 DISPLAY DR
R728 100K
TEST
C615 0.1
IC607 BU2114F
C616 0.1
IC608 BU2114F
R745 10K
R746 47K
R747 22K
C617 0.1
R748 22K
R749 22K
IC609 XL93LC66RF
IC609 EEPROM


8
9
10
11
12
13
14
15
16
17
18
19
CN604
+5V
GND
GND
PIB1
PIB2
PIB3
PIB4
PRIB
PINCE
POTCE
CN2
-2 BOARD)
age 62)
CN852
BOARD)
e 47)
UT1
SW601
SW602
SW603
SW604
SW605
SW606
SW607
SW608
SW609
Q601~609
LED DRIVE
Q601
Q602
Q603
Q604
Q605
Q606
Q607
Q608
Q609
DTD123TK
D601
C604 0.1
C602
330/6.3
C605 0.1
C610
0.1
C609
0.1
R673
1.5K
B+
R681 47K
R682 47K
R683 47K
R684 47K
R685 47K
R686 100
R687
100
IC602
INVERTER
IC602 74HC04
PVS-880S
ONLY
R688
10K
PVS-1680S
ONLY
R688
47K
C606
0.1
PVS-880S
C622
0.1
(CHASSIS)
IC605
KEY CONTROL
R706
47K
R707
47K
IC605
74HC138
(1~8)
Q621~628
LED DRIVE
Q621
Q622
Q623
Q624
Q625
Q626
Q627
Q628
DTD123TK
C621
0.1
Q629~636
LED DRIVE
R691 47K
R690 47K
R693 47K
R692 47K
R695 47K
R694 47K
R697 47K
R696 47K
R699 47K
R698 47K
R703 47K
R704 47K
R705 47K
R700 47K
R701 47K
R702 47K
C607
0.1
IC603
KEY CONTROL
IC603
74HC157
C608 0.1
IC604
74HC157
IC604
KEY CONTROL
PVS-880S
R689
47k
C620
0.1
IC610
74HC574
IC610
LED CONTROL
X601
CST4.00MGW
IC601
SYSTEM CONTROL
IC601
uPD78P054GC-067-3B9
PIB1
PIB2
PIB3
PIB4
PRIB
PINCE
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
KDT9
LED9
KDT10
KSTB1
KSTB2
KSTB3
KSTCE
X1
X2
XT2
KDT1
KDT2
KDT3
KDT4
KDHSL
KDT5
KDT6
KDT7
KDT8
LEDHS
RESET
IC
AVREFO
VSS
AVDD
VDD
A GATE
VSYNC
PFI
SYSPW
MUT8
MUT7
MUT6
MUT5
MUT4
MUT3
MUT2
MUT1
SICK
SIDO
RESOT
ASEL
ASB3
ASB2
ASB1
VDCS4
VDCS3
VDCS2
VDCS1
SSEL
SIDI
PWLED
PWRKY
LOCK
DSRB
DTRB
CTSB
RTSB
TXDB
RXDB
AVREF1
TEST
LEDCS
AVss
MRDI
MRCS
R708
47K
R709
100K
C611
0.1
IC606
S-80718AN-DF
IC606
RESET
R710
470K
C612
0.1
C613
0.1
R719 4.7K
R720
Q618
DTA114EK
Q619
DTC144EK
Q620
DTA114EK
R722
R725 100
R726 100
R727 100
R728 100K
C615 0.1
C616 0.1
C617
0.1
R745 10K
R746 47K
R747 22K
R748
22K
R749
22K
IC609
XL93LC66RF
IC609
EEPROM


18
19
20
21
22
CN601
B+
C603 0.1
C601 330 /6.3
5 +5V
6 +5V
7 +5V
1 GND
2 GND
3 GND
4 GND
8 A GATE
11 VSYNC
10 PFI
9 SYSPW
34 MUT8
33 MUT7
32 MUT6
31 MUT5
30 MUT4
29 MUT3
28 MUT2
27 MUT1
17 GND
16 SICK
15 GND
14 SIDO
13 GND
12 RESOT
25 ASEL
24 ASB3
23 ASB2
22 ASB1
21 VDCS4
20 VDCS3
19 VDCS2
18 VDCS1
26 SSEL
Ⓒ POWER BOARD CN801 (Page 51)
R711 100K
R712 100K
R713 100K
R751 2.2K
R752 1K
R753 1K
R754 1K
R755 1K
R756 1K
R757 1K
R714 680
R715 680
R716 680
R717 680
R758 1K
R719 4.7K
R718 100K
R720 10K
R721 390
R722 390
R723 47K
R724 47K
Q620 DTA114EK
Q618~620 POWER ON/OFF
4EK
CN602
1 PWR ON
2 STANDBY
3 PWRKY
4 GND
5 LOCK
6 GND
Ⓓ POWER SW BOARD CN971 (Page 46)
Ⓔ LOCK SW BOARD CN951 (Page 46)
CN603
C614 0.1
1 +5V
2 GND
8 DSRB
5 DTRB
7 CTSB
4 RTSB
3 TXDB
6 RXDB
Ⓕ RS-232C BOARD CN961 (Page 45)
R725 100
R726 100
R727 100
R728 100K
IC607 DISPLAY DRIVE
TEST
REMOTE
*PVS-1680S: D619 PVS-880S: D611
C615 0.1
D609 (GRN)
LA301VB
*D619
COM
IC607 BU2114F
R744 220
R743 390
R742 390
R741 390
R740 390
R739 390
R738 390
R737 390
DPA
DPC
AV SEPARATE
C616 0.1
D610 (ORG)
*D620
IC608 BU2114F
R736 220
R735 390
R734 390
R733 390
R732 390
R731 390
R730 390
R729 390
IC608 DISPLAY DRIVE
*PVS-1680S: D620 PVS-880S: D612
R746 47K
R747 22K
C617 0.1
R748 22K
R749 22K
R750 22K
IC609 XL93LC66RF
IC609 EEPROM

CONTROL BOARD IC VOLTAGE LIST

	Pin	Volt		Pin	Volt		Pin	Volt
IC601	①	5.1	IC602	①	GND		⑯	4.6
	②	0		②	5.1		⑰	4.3
	③	5.1		③	GND		⑱	5.1
	④	GND		④	5.1	IC608	①	0
	⑤	5.1		⑤	GND		②	0.4
	⑥	4.5		⑥	5.1		③	0
	⑦	4.6		⑦	GND		④	0
	⑧	5.1		⑧	5.1		⑤	GND
	⑨	5.1		⑨	0.1		⑥	5.1
	⑩	0		⑩	0.1		⑦	GND
	⑪	0		⑪	5		⑧	GND
	⑫	0		⑫	5.1		⑨	GND
	⑬	5.1		⑬	GND		⑩	4.6
	⑭	5.1		⑭	5.1		⑪	4.6
	⑮	5.1	IC603	①	5		⑫	4.6
	⑯	5.1		②	5.1		⑬	4.6
	⑰	0		③	5.1		⑭	4.6
	⑱	0.5		④	5.1		⑮	4.6
	⑲	5.1		⑤	5.1		⑯	4.6
	⑳	5.1		⑥	5.1		⑰	4.6
	㉑	5.1		⑦	5.1		⑱	5.1
	㉒	5.1		⑧	GND	IC609	①	0
	㉓	0		⑨	5.1		②	0.4
	㉔	0		⑩	5.1		③	0
	㉕	5.1		⑪	5.1		④	5.1
	㉖	0		⑫	5.1		⑤	GND
	㉗	0		⑬	5.1		⑥	0
	㉘	0		⑭	5.1		⑦	0
	㉙	0		⑮	GND		⑧	5.1
	㉚	0		⑯	5.1	IC610	①	GND
	㉛	0	IC604	①	5.1		②	0
	㉜	0		②	5.1		③	0
	㉝	0		③	5.1		④	0
	㉞	0		④	5.1		⑤	0
	㉟	0		⑤	5.1		⑥	0
	㊱	5		⑥	5.1		⑦	0
	㊲	5		⑦	5.1		⑧	0
	㊳	5		⑧	GND		⑨	0
	㊴	4.7		⑨	5.1		⑩	GND
	㊵	5		⑩	5.1		⑪	0
	㊶	4.9		⑪	5.1		⑫	0
	㊷	0		⑫	5.1		⑬	0
	㊸	4.4		⑬	5.1		⑭	0
	㊹	0		⑭	5.1		⑮	0
	㊺	0		⑮	GND		⑯	0
	㊻	0		⑯	5.1		⑰	0
	㊼	0	IC605	①	2.8		⑱	0
	㊽	0		②	2.8		⑲	0
	㊾	0		③	2.8		⑳	5.1
	㊿	0		④	GND			
	(51)	0		⑤	GND			
	(52)	5.1		⑥	4.5			
	(53)	5.1		⑦	4.5			
	(54)	5.1		⑧	GND			
	(55)	5.1		⑨	4.5			
	(56)	5.1		⑩	4.5			
	(57)	5		⑪	4.5			
	(58)	5.1		⑫	4.5			
	(59)	5.1		⑬	4.5			
	(60)	4.8		⑭	4.5			
	(61)	5.1		⑮	4.5			
	(62)	4.9		⑯	5.1			
	(63)	5	IC606	①	4.8			
	(64)	2.8		②	3.4			
	(65)	2.8		③	GND			
	(66)	2.7	IC607	①	0			
	(67)	5		②	0.4			
	(68)	5.1		③	0			
	(69)	2.8		④	0			
	(70)	2.4		⑤	GND			
	(71)	0		⑥	5.1			
	(72)	0.1		⑦	GND			
	(73)	5		⑧	GND			
	(74)	5		⑨	GND			
	(75)	0		⑩	4.8			
	(76)	4.5		⑪	4.8			
	(77)	5		⑫	4.8			
	(78)	0		⑬	4.8			
	(79)	5.1		⑭	4.7			
	(80)	0		⑮	4.6			

CONTROL BOARD TRANSISTOR VOLTAGE LIST

	E	C	B
Q601 - 609	GND	3.9	0.6
Q610 - 617	5.1	0.8	5
Q618	5.1	5	0
Q619	GND	5.1	0
Q620	5.1	− 0.4	5.1
Q621 - 628	GND	4.7	0
Q629 - 636	5.1	1.1	5

AUDIO/AUDIO 2 BOARD
IC VOLTAGE LIST

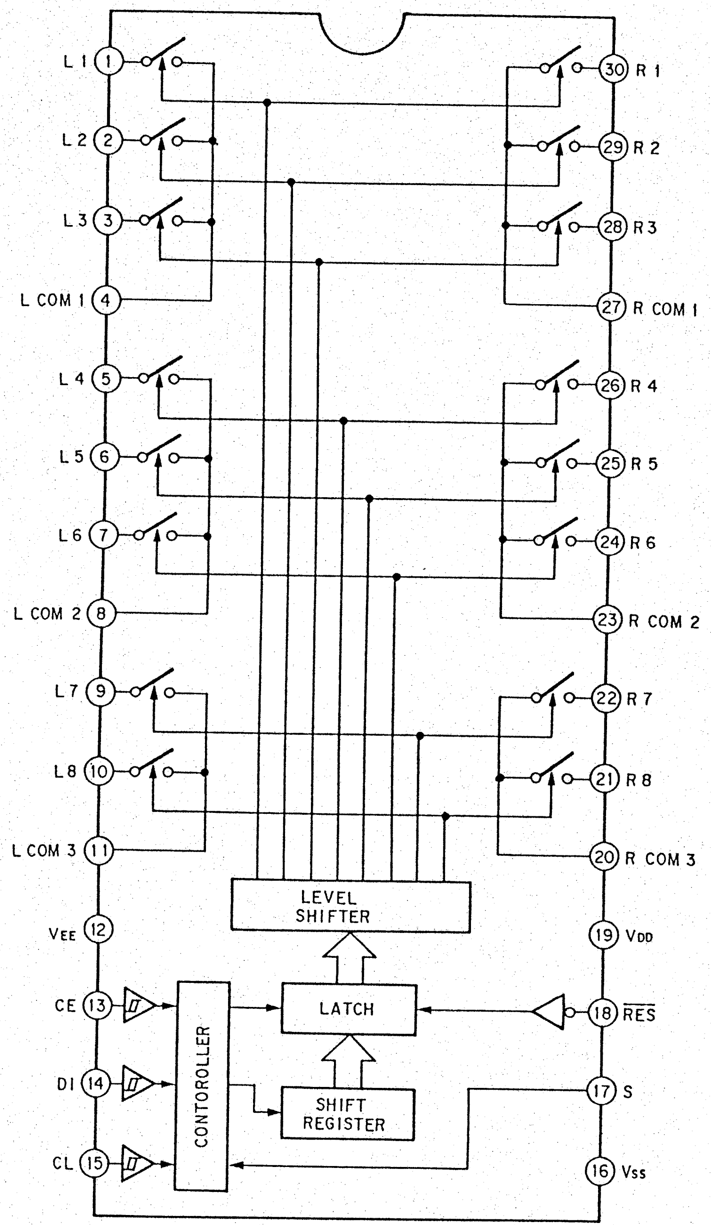
	Pin	Volt
IC101 | IC116	①	0
	②	0
	③	0
	④	− 12
	⑤	0
	⑥	0
	⑦	0
	⑧	11.9
IC117 | IC124	①	0
	②	0
	③	0
	④	0
	⑤	0
	⑥	0
	⑦	0
	⑧	0
	⑨	0
	⑩	0
	⑪	0
	⑫	− 12
	⑬	− 0.6
	⑭	4.3
	⑮	4.3
	⑯	GND
	⑰	12
	⑱	12
	⑲	12
	⑳	0
	㉑	0
	㉒	0
	㉓	0
	㉔	0
	㉕	0
	㉖	0
	㉗	0
	㉘	0
	㉙	0
	㉚	0

AUDIO/AUDIO 2 BOARD
TRANSISTOR VOLTAGE LIST

	E	C	B
Q101 − 116	0	GND	− 12.1

• IC BLOCK DIAGRAMS (AUDIO SECTION)

IC117 – 124 LC7822


L 1
L 2
L 3
L COM 1
L 4
L 5
L 6
L COM 2
L 7
L 8
L COM 3
VEE
CE
DI
CL
R 1
R 2
R 3
R COM 1
R 4
R 5
R 6
R COM 2
R 7
R 8
R COM 3
VDD
RES
S
Vss
LEVEL SHIFTER
LATCH
SHIFT REGISTER
CONTOROLLER

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- B+ : B+ Line
- B − : B − Line
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : AUDIO
- PVS-1680S, 1680S/1 : Use the AUDIO BOARD and AUDIO 2 BOARD.
- PVS-880S : Uses only the AUDIO BOARD.

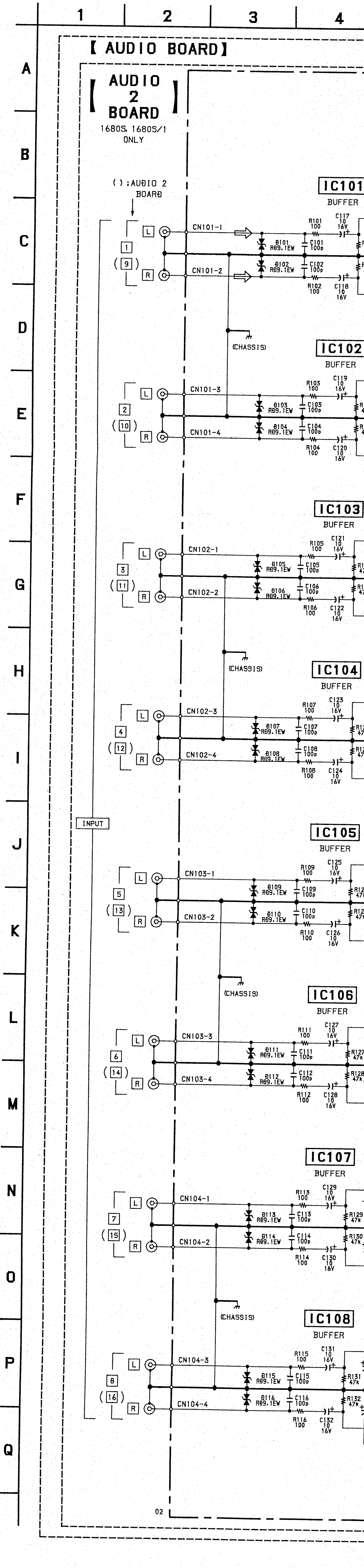
＊1 : Drawings shows the PVS-1680S, 1680S/1 with the AUDIO BOARD and AUDIO 2 BOARD connected.

● 回路図ノート

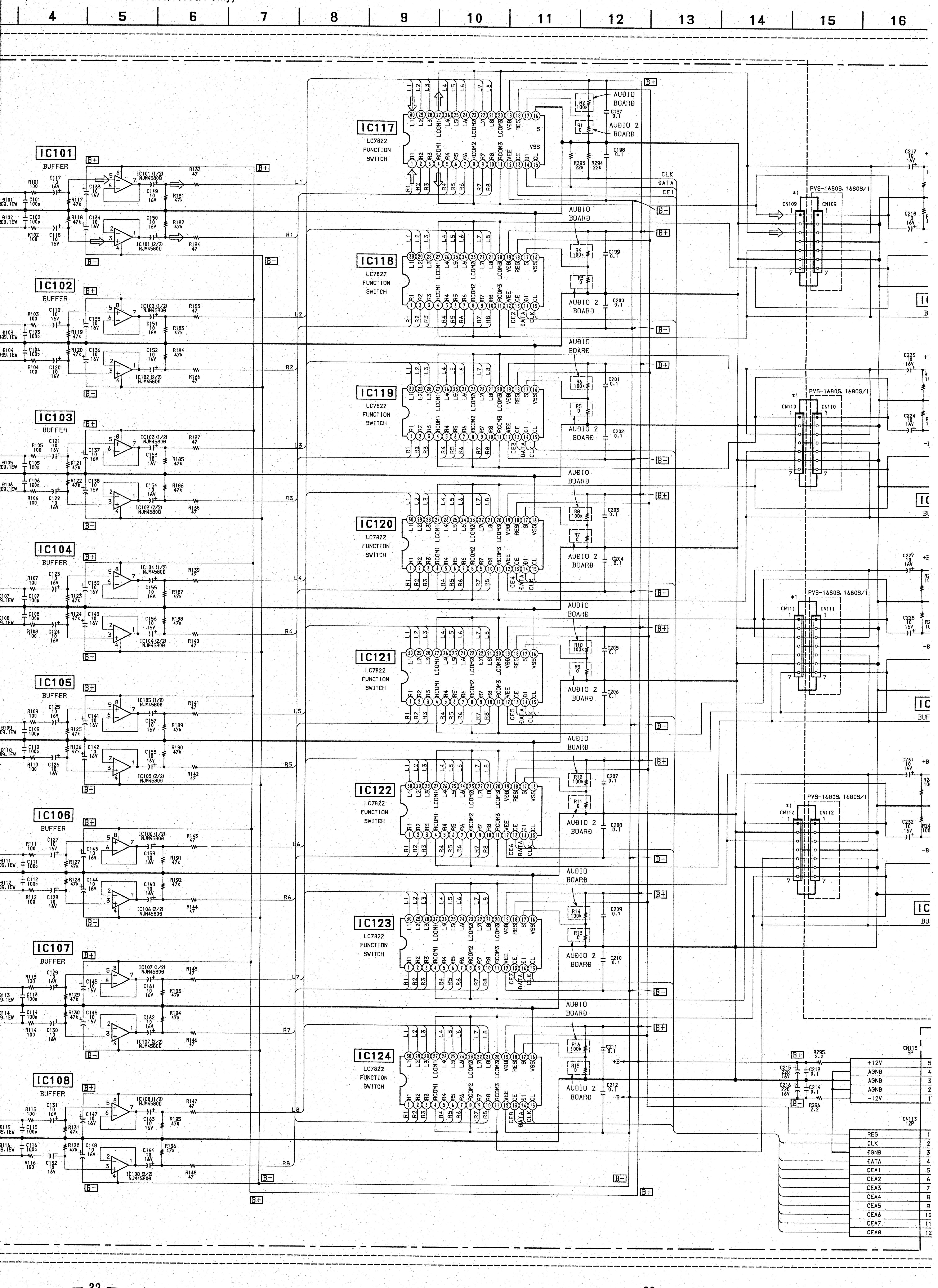
- ケミコン，タンタルを除くコンデンサーで，耐圧50V以下のものは，その耐圧を省略。単位はすべてμF（pはpF)。
- 抵抗で指示のないものは¼W以下を示す。単位はすべてΩ。
- B+ ：B＋ライン。
- B − ：B－ライン。
- 電圧は，対アース間を無信号状態で測定。
- 電圧値は，テスター（入力インピーダンス 10MΩ）で測定した参考値。
- 信号の流れについて
  ⇨ ：音声
- PVS-1680S，1680S/1：AUDIO BOARDとAUDIO 2 BOARDを使用。
- PVS-880S：AUDIO BOARDのみを使用。

＊1：PVS-1680S，1680S/1でAUDIO BOARDとAUDIO 2 BOARDを接続していることを示す。

3-6. SCHEMATIC DIAGRAM – AUDIO SECTION – (AUDIO 2

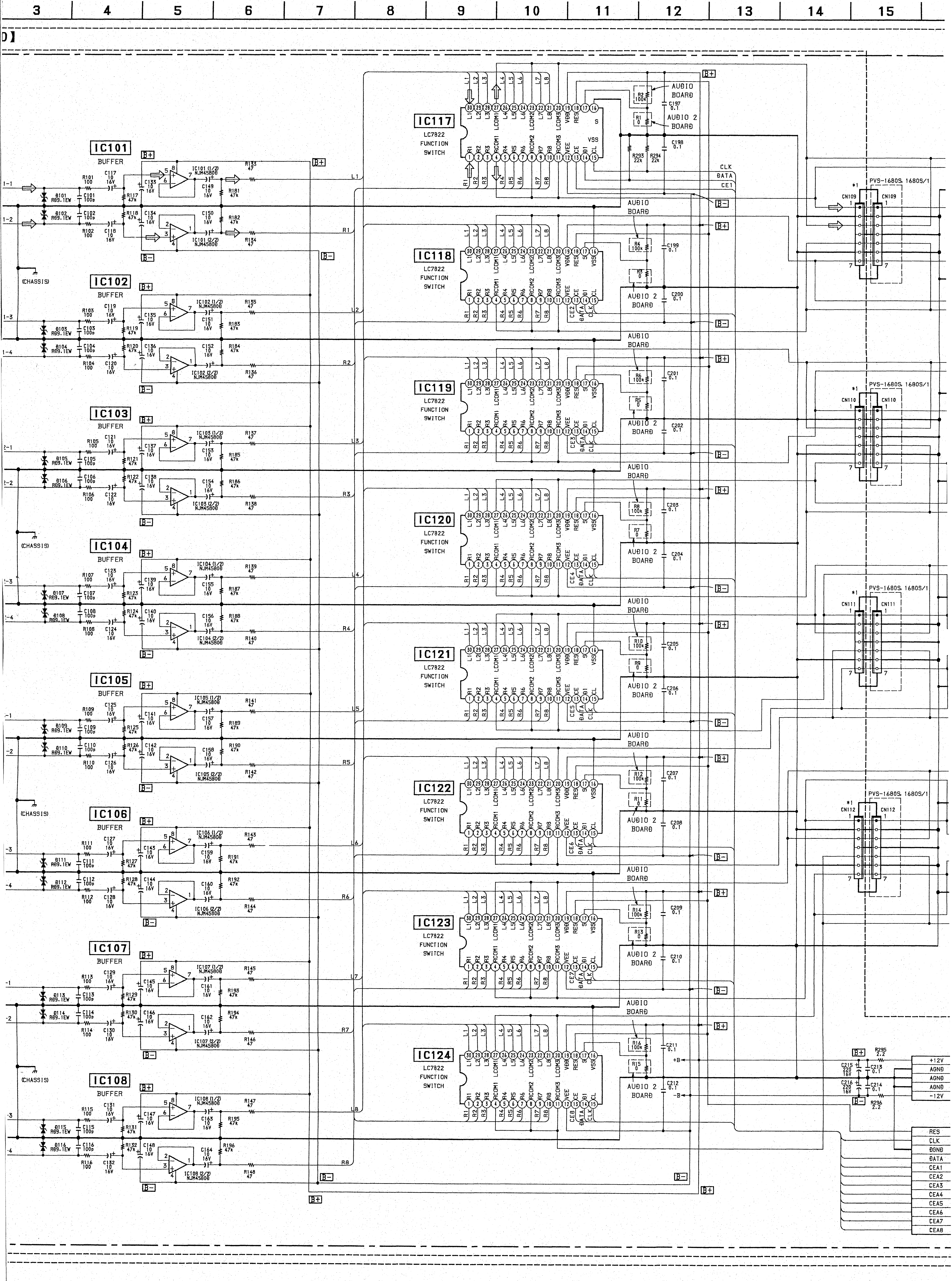

1
2
3
4
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
【AUDIO BOARD】
【AUDIO 2 BOARD】
1680S, 1680S/1 ONLY
( ) ;AUDIO 2 BOARD
INPUT
(CHASSIS)
IC101 BUFFER
IC102 BUFFER
IC103 BUFFER
IC104 BUFFER
IC105 BUFFER
IC106 BUFFER
IC107 BUFFER
IC108 BUFFER
CN101-1
CN101-2
CN101-3
CN101-4
CN102-1
CN102-2
CN102-3
CN102-4
CN103-1
CN103-2
CN103-3
CN103-4
CN104-1
CN104-2
CN104-3
CN104-4
02

ON – (AUDIO 2 BOARD : PVS-1680S/1680S/1 only)



4
5
6
7
8
9
10
11
12
13
14
15
16
IC101
BUFFER
IC102
BUFFER
IC103
BUFFER
IC104
BUFFER
IC105
BUFFER
IC106
BUFFER
IC107
BUFFER
IC108
BUFFER
NJM4580D
IC117
IC118
IC119
IC120
IC121
IC122
IC123
IC124
LC7822
FUNCTION
SWITCH
AUDIO BOARD
AUDIO 2 BOARD
CLK
DATA
CE1
B+
B−
+B
−B
CN109
CN110
CN111
CN112
PVS-1680S, 1680S/1
CN115
5P
+12V
AGND
AGND
AGND
−12V
CN113
12P
RES
CLK
DGND
DATA
CEA1
CEA2
CEA3
CEA4
CEA5
CEA6
CEA7
CEA8

DIO SECTION – (AUDIO 2 BOARD : PVS-1680S/1680S/1 only)


3
4
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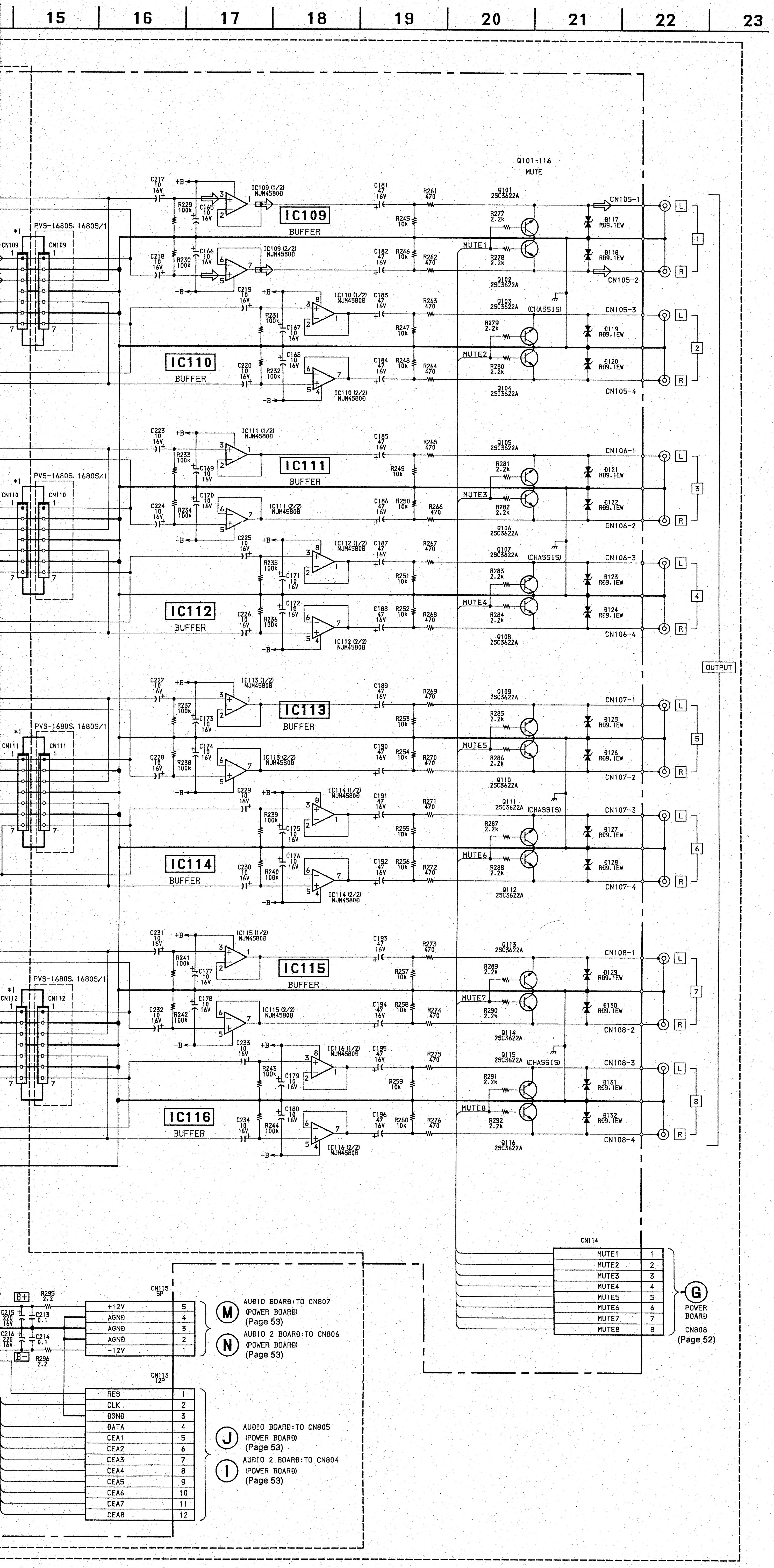
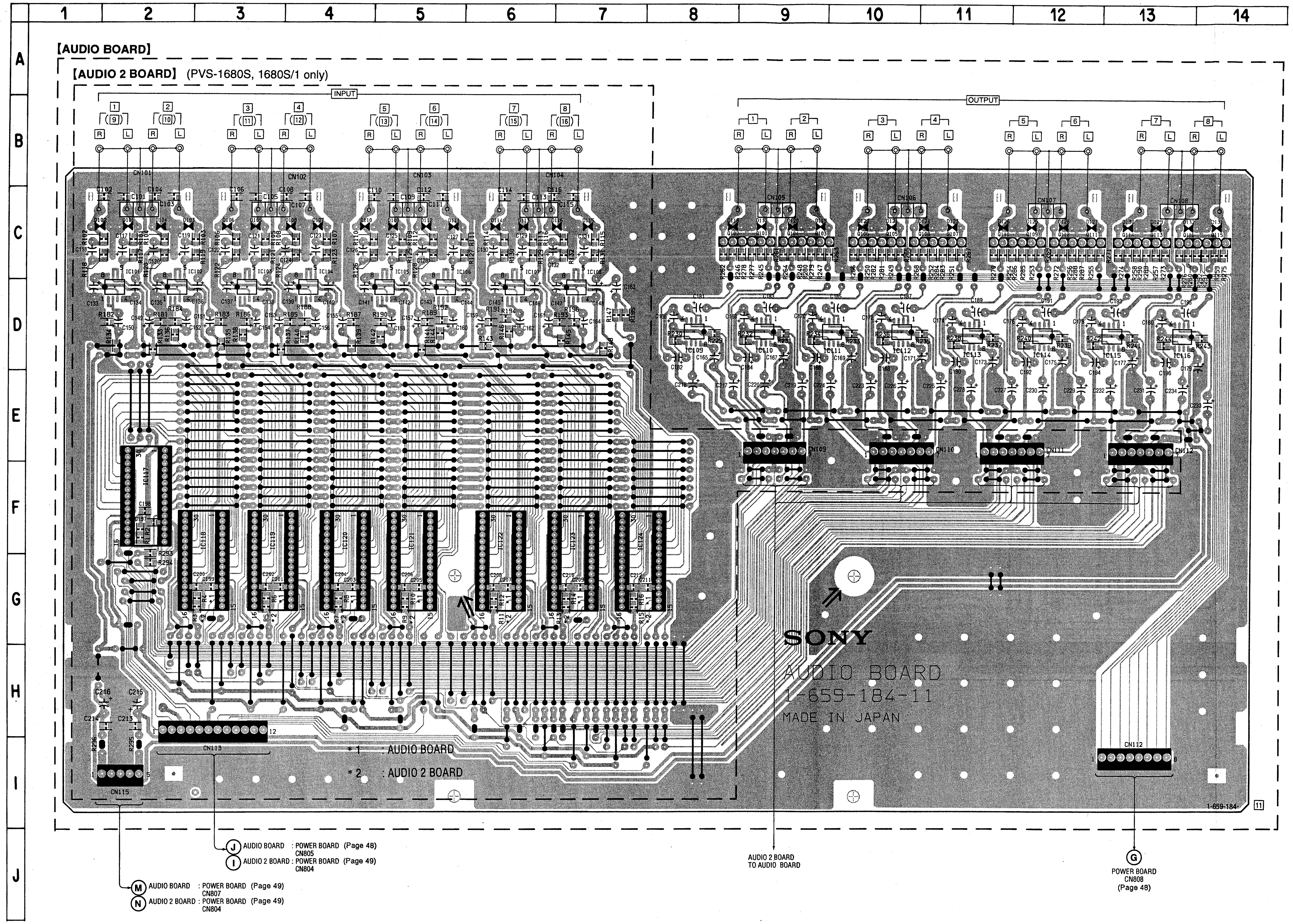
7
8
9
10
11
12
13
14
15
IC101
BUFFER
IC102
BUFFER
IC103
BUFFER
IC104
BUFFER
IC105
BUFFER
IC106
BUFFER
IC107
BUFFER
IC108
BUFFER
NJM4580D
RB9.1EW
(CHASSIS)
IC117
IC118
IC119
IC120
IC121
IC122
IC123
IC124
LC7822
FUNCTION
SWITCH
RCOM1
RCOM2
RCOM3
LCOM1
LCOM2
LCOM3
VEE
VDD
CE
RES
DI
S
CL
VSS
AUDIO BOARD
AUDIO 2 BOARD
CLK
DATA
CE1
CN109
CN110
CN111
CN112
PVS-1680S, 1680S/1
*1
+12V
AGND
AGND
AGND
-12V
RES
CLK
DGND
DATA
CEA1
CEA2
CEA3
CEA4
CEA5
CEA6
CEA7
CEA8
B+
B-
+B
-B
R295
2.2
R296
2.2


15
16
17
18
19
20
21
22
23
Q101-116
MUTE
PVS-1680S, 1680S/1
*1
CN109
CN110
CN111
CN112
IC109
IC110
IC111
IC112
IC113
IC114
IC115
IC116
BUFFER
IC109 (1/2) NJM4580D
IC109 (2/2) NJM4580D
IC110 (1/2) NJM4580D
IC110 (2/2) NJM4580D
IC111 (1/2) NJM4580D
IC111 (2/2) NJM4580D
IC112 (1/2) NJM4580D
IC112 (2/2) NJM4580D
IC113 (1/2) NJM4580D
IC113 (2/2) NJM4580D
IC114 (1/2) NJM4580D
IC114 (2/2) NJM4580D
IC115 (1/2) NJM4580D
IC115 (2/2) NJM4580D
IC116 (1/2) NJM4580D
IC116 (2/2) NJM4580D
+B
-B
Q101 2SC3622A
Q102 2SC3622A
Q103 2SC3622A
Q104 2SC3622A
Q105 2SC3622A
Q106 2SC3622A
Q107 2SC3622A
Q108 2SC3622A
Q109 2SC3622A
Q110 2SC3622A
Q111 2SC3622A
Q112 2SC3622A
Q113 2SC3622A
Q114 2SC3622A
Q115 2SC3622A
Q116 2SC3622A
(CHASSIS)
D117 RD9.1EW
D118 RD9.1EW
D119 RD9.1EW
D120 RD9.1EW
D121 RD9.1EW
D122 RD9.1EW
D123 RD9.1EW
D124 RD9.1EW
D125 RD9.1EW
D126 RD9.1EW
D127 RD9.1EW
D128 RD9.1EW
D129 RD9.1EW
D130 RD9.1EW
D131 RD9.1EW
D132 RD9.1EW
MUTE1
MUTE2
MUTE3
MUTE4
MUTE5
MUTE6
MUTE7
MUTE8
CN105-1
CN105-2
CN105-3
CN105-4
CN106-1
CN106-2
CN106-3
CN106-4
CN107-1
CN107-2
CN107-3
CN107-4
CN108-1
CN108-2
CN108-3
CN108-4
L
R
1
2
3
4
5
6
7
8
OUTPUT
CN114
MUTE1 1
MUTE2 2
MUTE3 3
MUTE4 4
MUTE5 5
MUTE6 6
MUTE7 7
MUTE8 8
G
POWER BOARD
CN808
(Page 52)
CN115 5P
+12V 5
AGND 4
AGND 3
AGND 2
-12V 1
M
AUDIO BOARD:TO CN807 (POWER BOARD) (Page 53)
N
AUDIO 2 BOARD:TO CN806 (POWER BOARD) (Page 53)
CN113 12P
RES 1
CLK 2
DGND 3
DATA 4
CEA1 5
CEA2 6
CEA3 7
CEA4 8
CEA5 9
CEA6 10
CEA7 11
CEA8 12
J
AUDIO BOARD:TO CN805 (POWER BOARD) (Page 53)
I
AUDIO 2 BOARD:TO CN804 (POWER BOARD) (Page 53)
B+
B-
R295 2.2
R296 2.2
C215 220 16V
C216 220 16V
C213 0.1
C214 0.1

3-7. PRINTED WIRING BOARDS – AUDIO SECTION –


1
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6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
J
【AUDIO BOARD】
【AUDIO 2 BOARD】 (PVS-1680S, 1680S/1 only)
INPUT
OUTPUT
R
L
CN101
CN102
CN103
CN104
CN105
CN106
CN107
CN108
CN109
CN110
CN111
CN112
CN113
CN115
IC117
IC118
IC119
IC120
IC121
IC122
IC123
IC124
SONY
AUDIO BOARD
1-659-184-11
MADE IN JAPAN
*1 : AUDIO BOARD
*2 : AUDIO 2 BOARD
1-659-184- 11
J AUDIO BOARD : POWER BOARD (Page 48) CN805
I AUDIO 2 BOARD : POWER BOARD (Page 49) CN804
M AUDIO BOARD : POWER BOARD (Page 49) CN807
N AUDIO 2 BOARD : POWER BOARD (Page 49) CN804
AUDIO 2 BOARD TO AUDIO BOARD
G POWER BOARD CN808 (Page 48)

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	C-2	IC106	D-5
D102	C-2	IC107	D-6
D103	C-2	IC108	D-7
D104	C-2	IC109	D-8
D105	C-3	IC110	D-9
D106	C-3	IC111	D-10
D107	C-4	IC112	D-10
D108	C-4	IC113	D-11
D109	C-5	IC114	D-12
D110	C-4	IC115	D-13
D111	C-5	IC116	D-13
D112	C-5	IC117	F-2
D113	C-6	IC118	F-3
D114	C-6	IC119	F-3
D115	C-7	IC120	F-4
D116	C-7	IC121	F-5
D117	C-9	IC122	F-6
D118	C-8	IC123	F-7
D119	C-9	IC124	F-7
D120	C-9		
D121	C-10	Q101	C-9
D122	C-10	Q102	C-8
D123	C-11	Q103	C-9
D124	C-11	Q104	C-9
D125	C-12	Q105	C-10
D126	C-11	Q106	C-10
D127	C-12	Q107	C-11
D128	C-12	Q108	C-11
D129	C-13	Q109	C-12
D130	C-13	Q110	C-11
D131	C-14	Q111	C-12
D132	C-13	Q112	C-12
		Q113	C-13
		Q114	C-13
IC101	D-2	Q115	C-14
IC102	D-2		
IC103	D-3	Q116	C-13
IC104	D-4		
IC105	D-5		

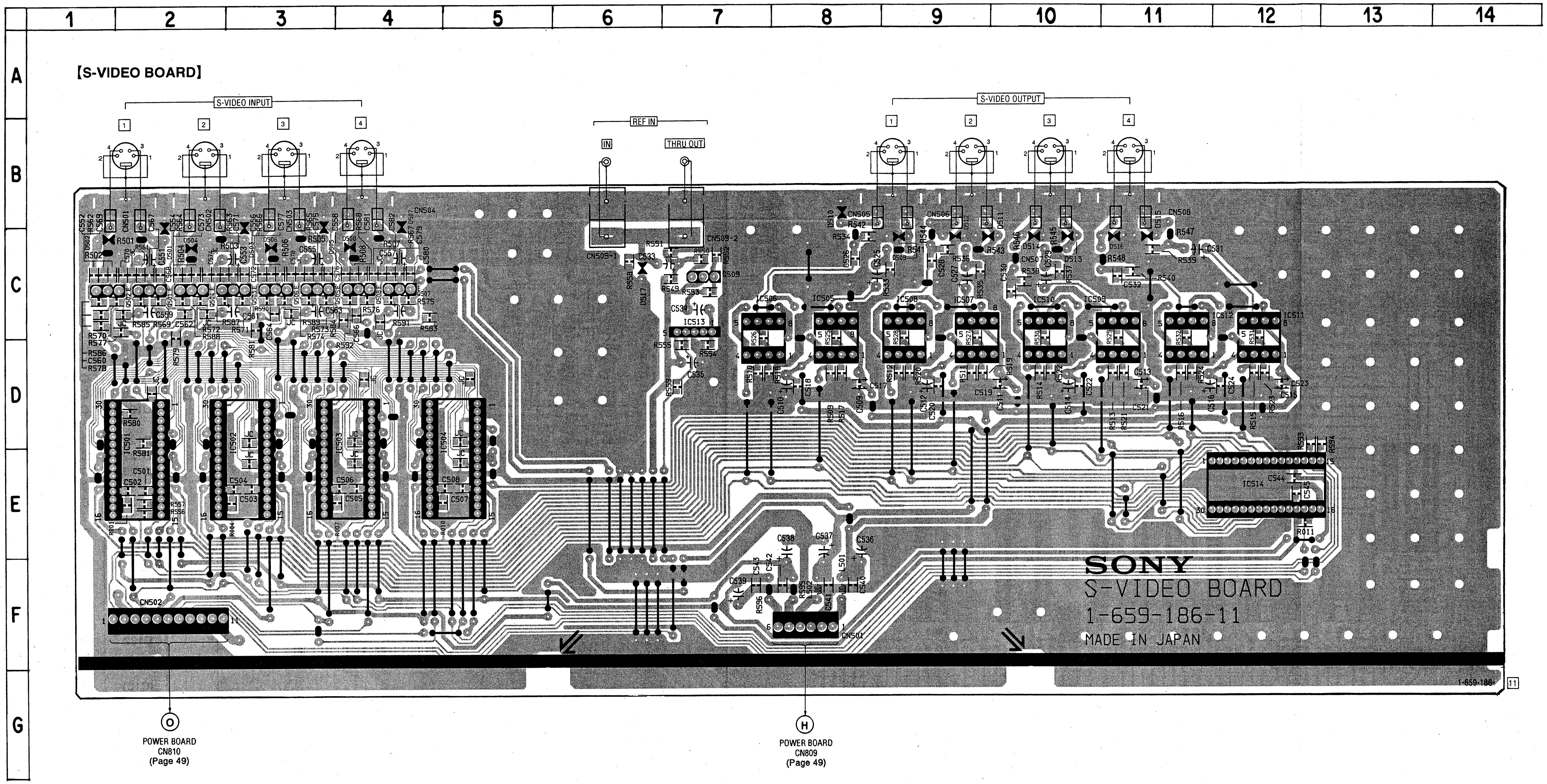
Note:

- ○— : parts extracted from the component side.
- ░░ : Pattern on the side which is seen.

● プリント図ノート

- ○—：部品面側取付のリード線。
- ░░ ：見ている面側のパターン。

3-8. PRINTED WIRING BOARDS – S VIDEO SECTION –


1
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5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
[S-VIDEO BOARD]
S-VIDEO INPUT
REF IN
IN
THRU OUT
S-VIDEO OUTPUT
IC501
IC502
IC503
IC504
IC505
IC506
IC507
IC508
IC509
IC510
IC511
IC512
IC513
IC514
CN501
CN502
SONY
S-VIDEO BOARD
1-659-186-11
MADE IN JAPAN
1-659-186-11
POWER BOARD
CN810
(Page 49)
POWER BOARD
CN809
(Page 49)

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	C-2	D514	C-10	IC509	C-11	Q506	C-3
D502	C-1	D515	C-11	IC510	C-10	Q507	C-4
D503	C-3	D516	C-11	IC511	C-12	Q508	C-4
D504	C-2	D517	C-6	IC512	C-11	Q509	C-7
D505	C-3			IC513	C-7		
D506	C-3	IC501	D-2	IC514	E-12		
D507	B-4	IC502	D-3				
D508	C-4	IC503	D-4				
D509	C-9	IC504	D-5	Q501	C-2		
D510	B-8	IC505	C-8	Q502	C-1		
				Q503	C-3		
D511	C-9	IC506	C-7	Q504	C-2		
D512	C-9	IC507	C-9	Q505	C-3		
D513	C-10	IC508	C-9				

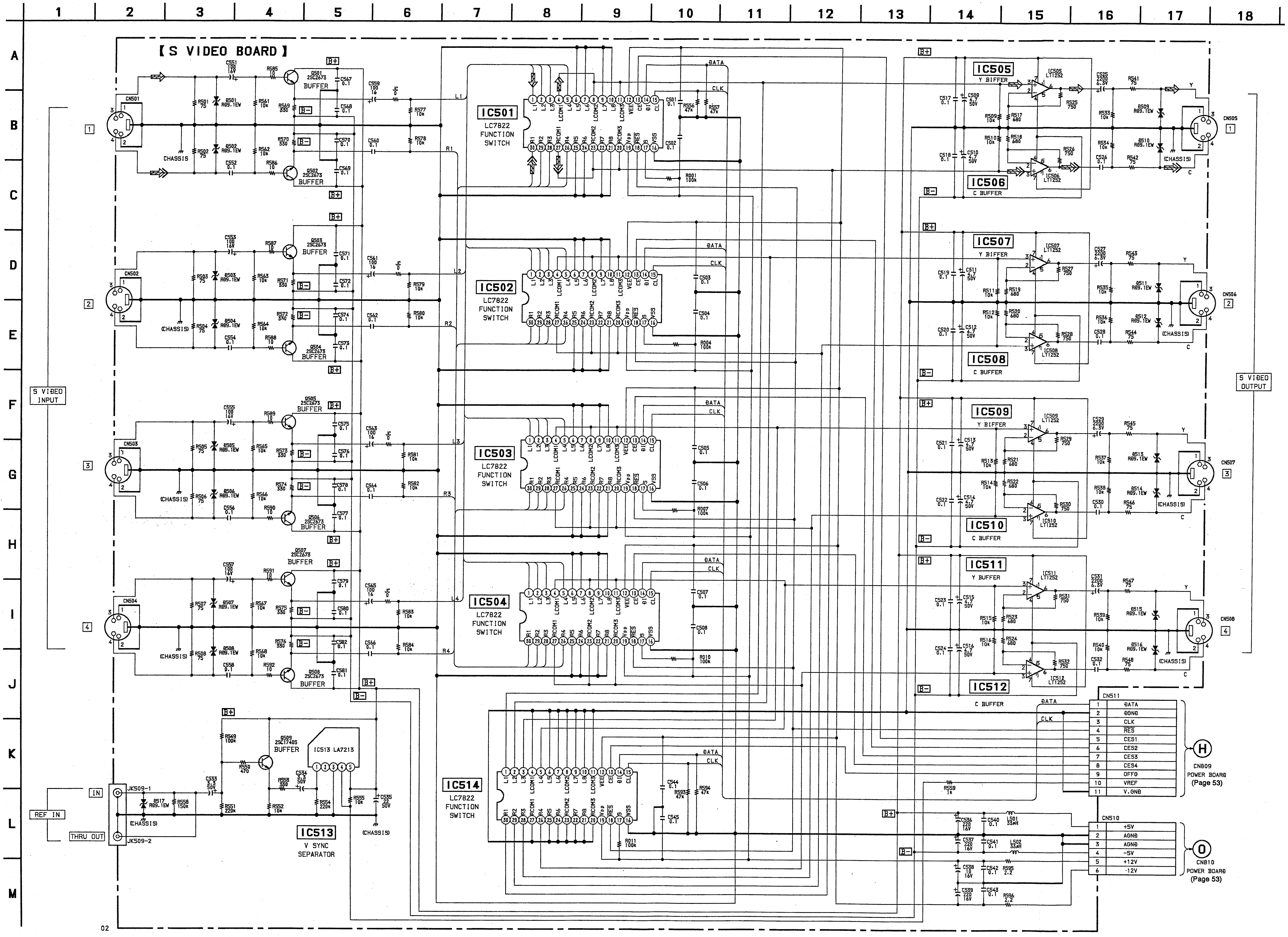
Note:

- ○— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.

● プリント図ノート

- ○—：部品面側取付のリード線。
- ▨ ：見ている面側のパターン。

3-9. SCHEMATIC DIAGRAM – S VIDEO SECTION –



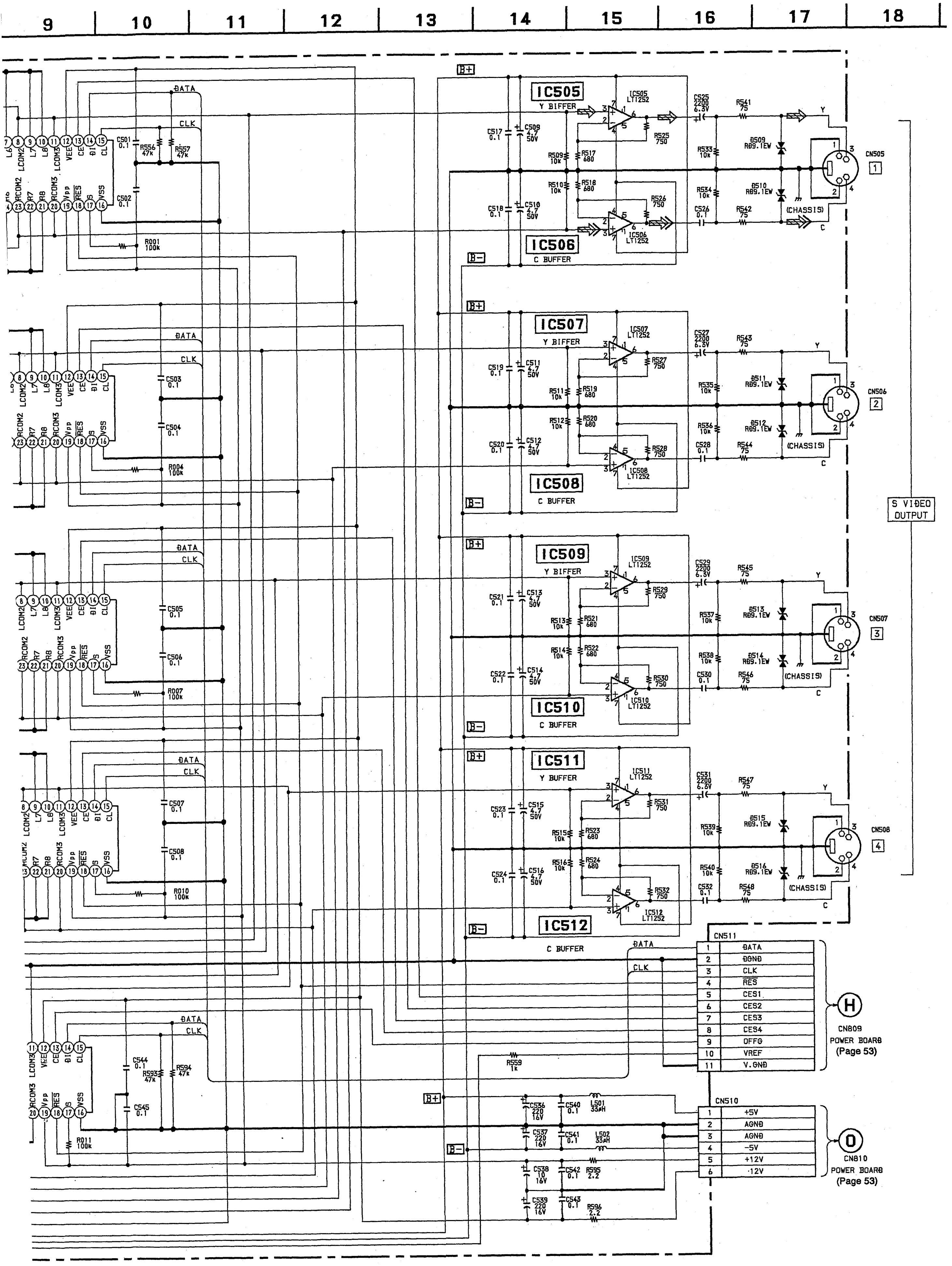
【S VIDEO BOARD】
S VIDEO INPUT
S VIDEO OUTPUT
CN501
CN502
CN503
CN504
CN505
CN506
CN507
CN508
IC501 LC7822 FUNCTION SWITCH
IC502 LC7822 FUNCTION SWITCH
IC503 LC7822 FUNCTION SWITCH
IC504 LC7822 FUNCTION SWITCH
IC514 LC7822 FUNCTION SWITCH
IC505 Y BUFFER
IC506 C BUFFER
IC507 Y BIFFER
IC508 C BUFFER
IC509 Y BIFFER
IC510 C BUFFER
IC511 Y BUFFER
IC512 C BUFFER
IC513 LA7213
IC513 V SYNC SEPARATOR
Q501 2SC2673 BUFFER
Q502 2SC2673 BUFFER
Q503 2SC2673 BUFFER
Q504 2SC2673 BUFFER
Q505 2SC2673 BUFFER
Q506 2SC2673 BUFFER
Q507 2SC2673 BUFFER
Q508 2SC2673 BUFFER
Q509 2SC1740S BUFFER
REF IN
IN
THRU OUT
JK509-1
JK509-2
CHASSIS
DATA
CLK
CN511
1 DATA
2 DGND
3 CLK
4 RES
5 CES1
6 CES2
7 CES3
8 CES4
9 OFFO
10 VREF
11 V.GND
CN809 POWER BOARD (Page 53)
CN510
1 +5V
2 AGND
3 AGND
4 -5V
5 +12V
6 -12V
CN810 POWER BOARD (Page 53)
B+
B-
Y
C
02

Note :

- All capacitors ar
  50WV or less ar
  tantalums.
- All resistors are
  specified.
- **B+** : B+ Lin
- **B –** : B – Li
- Voltages are dc
  conditions.
- Voltages are tak
  Voltage variation
  tolerances.
- Signal path.
  ⇨ : Y
  ⇨» : C

● 回路図ノー

- ケミコン, タン
  のものは, その
- 抵抗で指示のな
- **B+** : B＋ラ
- **B –** : B－ラ
- 電圧は, 対アー
- 電圧値は, テス
  測定した参考値
- 信号の流れにつ
  ⇨ : Y
  ⇨» : C


9
10
11
12
13
14
15
16
17
18
IC505
Y BUFFER
IC506
C BUFFER
IC507
Y BUFFER
IC508
C BUFFER
IC509
Y BIFFER
IC510
C BUFFER
IC511
Y BUFFER
IC512
C BUFFER
LT1252
B+
B−
DATA
CLK
CN505
CN506
CN507
CN508
(CHASSIS)
S VIDEO OUTPUT
CN511
1 DATA
2 DGND
3 CLK
4 RES
5 CES1
6 CES2
7 CES3
8 CES4
9 OFFD
10 VREF
11 V.GND
CN809 POWER BOARD (Page 53)
CN510
1 +5V
2 AGND
3 AGND
4 −5V
5 +12V
6 −12V
CN810 POWER BOARD (Page 53)
H
O

S VIDEO BOARD IC VOLTAGE LIST

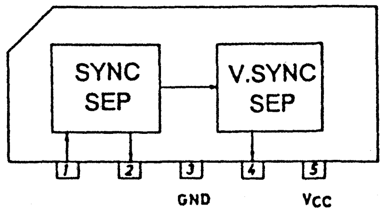
	Pin	Volt		Pin	Volt		Pin	Volt		Pin	Volt		Pin	Volt		Pin	Volt
IC501	①	0		⑭	5		㉗	0		②	4.9		⑩	GND		㉓	GND
|	②	0		⑮	5		㉘	0		③	GND		⑪	GND		㉔	GND
IC504	③	0		⑯	GND		㉙	0		④	4.9		⑫	− 12.1		㉕	GND
	④	0		⑰	12		㉚	0		⑤	4.9		⑬	0		㉖	0
	⑤	0		⑱	12.1	IC505	①	NC	IC514	①	0		⑭	5		㉗	GND
	⑥	GND		⑲	12.1	|	②	0		②	0		⑮	5		㉘	0
	⑦	GND		⑳	0	IC512	③	0		③	0		⑯	GND		㉙	0
	⑧	0		㉑	GND		④	− 4.7		④	GND		⑰	12		㉚	0
	⑨	GND		㉒	GND		⑤	0		⑤	0		⑱	12.1			
	⑩	GND		㉓	0		⑥	0		⑥	GND		⑲	12.1			
	⑪	0		㉔	GND		⑦	4.9		⑦	GND		⑳	GND			
	⑫	− 12.1		㉕	GND		⑧	NC		⑧	GND		㉑	GND			
	⑬	0		㉖	0	IC513	①	2.6		⑨	GND		㉒	GND			

S VIDEO BOARD TRANSISTOR VOLTAGE LIST

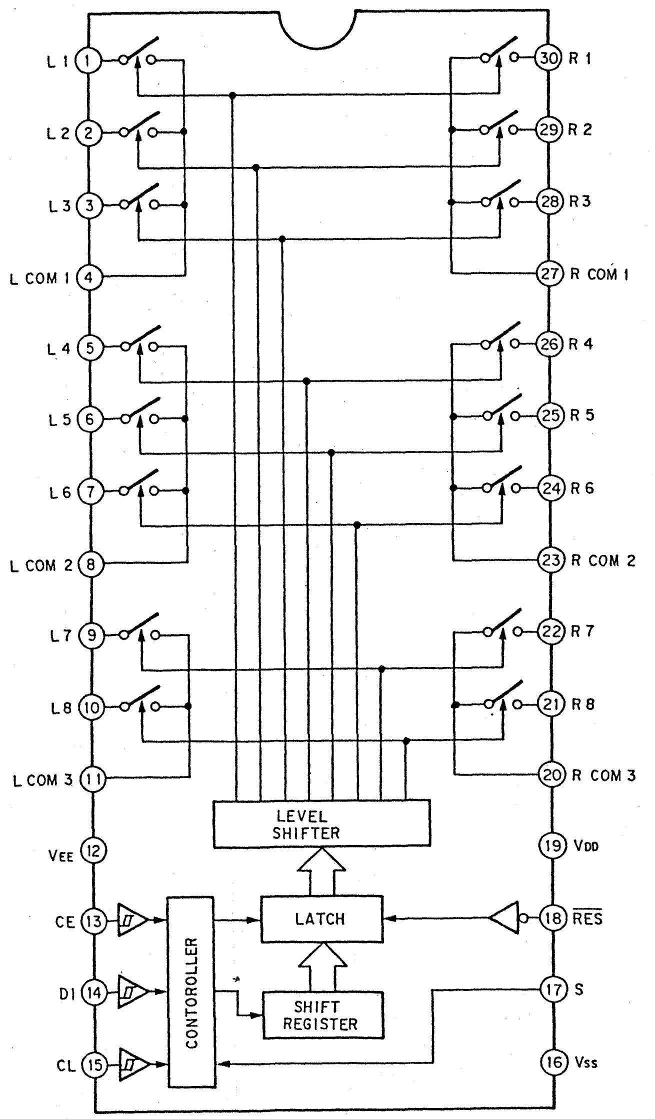
	E	C	B
Q501 - 508	− 1.2	4.9	− 0.6
Q509	2.7	4.9	3.3

● IC BLOCK DIAGRAMS (S VIDEO SECTION)

IC513 LA7213


SYNC SEP
V.SYNC SEP
1
2
3
4
5
GND
Vcc

IC501 − 504, 514 LC7822


L 1 ①
L 2 ②
L 3 ③
L COM 1 ④
L 4 ⑤
L 5 ⑥
L 6 ⑦
L COM 2 ⑧
L 7 ⑨
L 8 ⑩
L COM 3 ⑪
VEE ⑫
CE ⑬
DI ⑭
CL ⑮
㉚ R 1
㉙ R 2
㉘ R 3
㉗ R COM 1
㉖ R 4
㉕ R 5
㉔ R 6
㉓ R COM 2
㉒ R 7
㉑ R 8
⑳ R COM 3
⑲ VDD
⑱ RES
⑰ S
⑯ Vss
LEVEL SHIFTER
LATCH
SHIFT REGISTER
CONTOROLLER

Note :

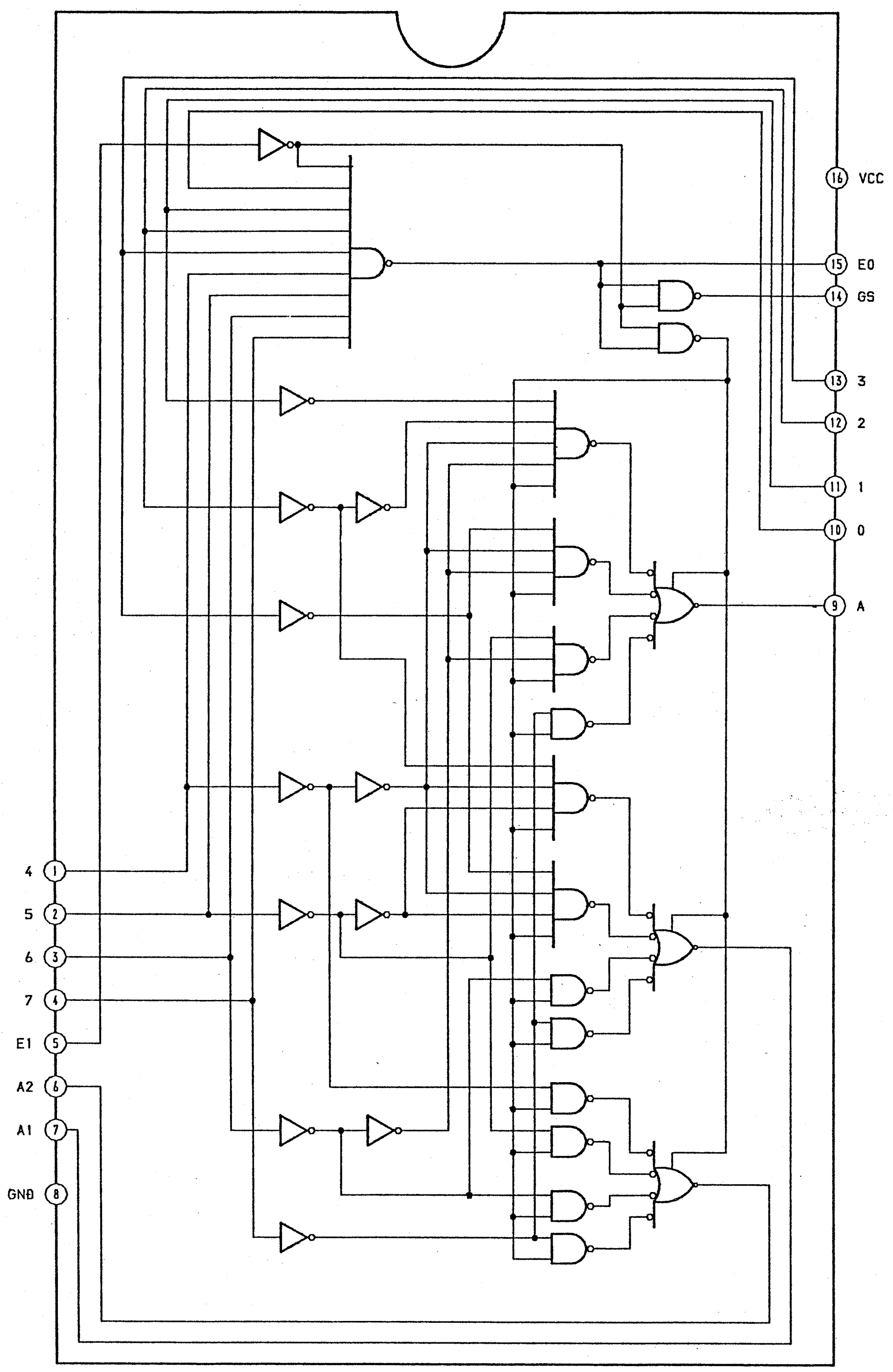
- All capacitors are in µ F unless otherwise noted. pF: µ µ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- **B+** : B+ Line
- **B −** : B − Line
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - ⇨ : Y
  - ⇨» : C

● 回路図ノート

- ケミコン, タンタルを除くコンデンサーで, 耐圧50V以下のものは, その耐圧を省略。 単位はすべてµF（pはpF)。
- 抵抗で指示のないものは¼W以下を示す。 単位はすべてΩ。
- **B+** : B＋ライン。
- **B −** : B－ライン。
- 電圧は, 対アース間を無信号状態で測定。
- 電圧値は, テスター（入力インピーダンス 10MΩ）で測定した参考値。
- 信号の流れについて
  - ⇨ : Y
  - ⇨» : C

• IC BLOCK DIAGRAM

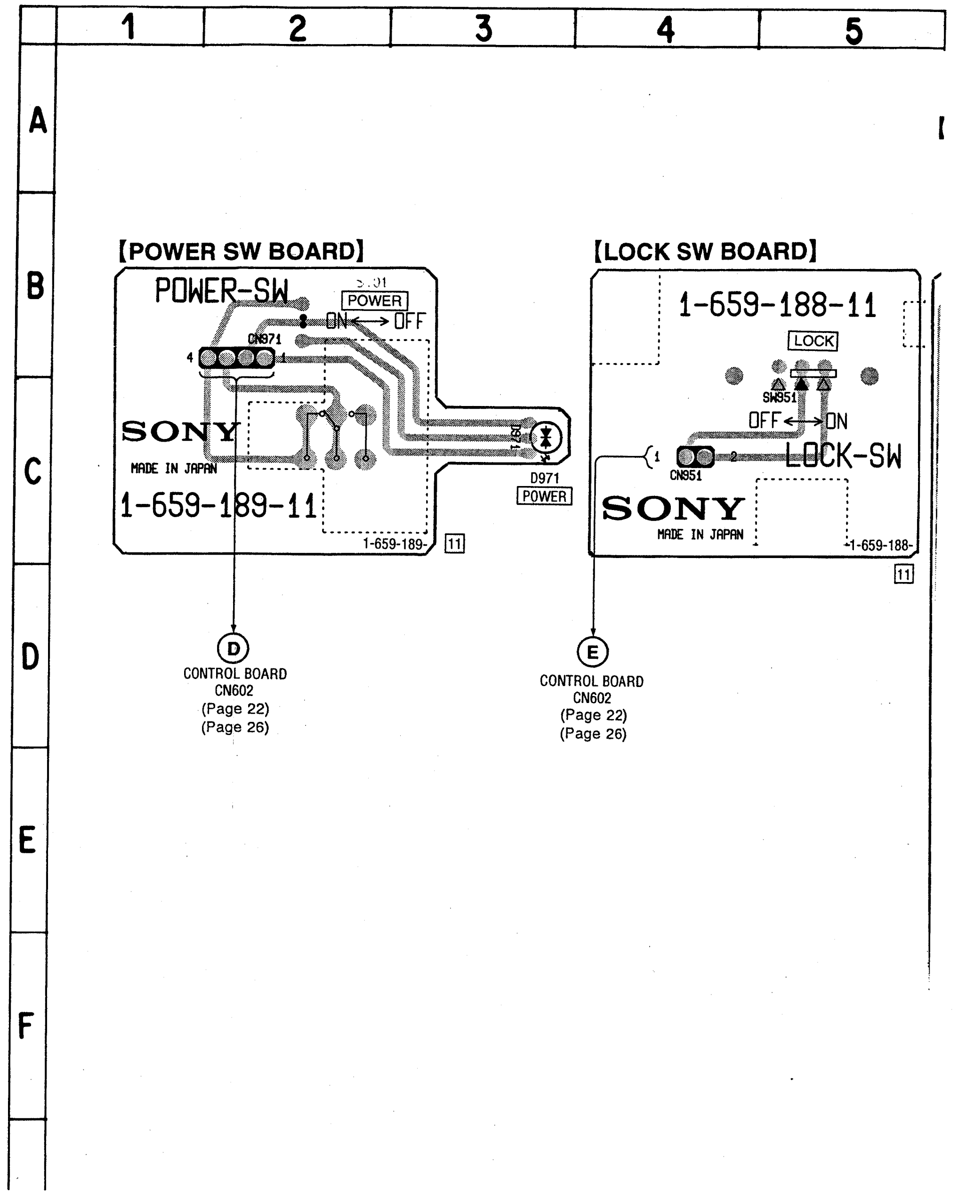
IC853 SN74LS348ANS (PI-1 SECTION)
IC3 SN74LS348ANS (PI-2 SECTION)


16 VCC
15 E0
14 GS
13 3
12 2
11 1
10 0
9 A
4 1
5 2
6 3
7 4
E1 5
A2 6
A1 7
GND 8

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D851	C - 7	D964	C - 10
D852	C - 7	D965	C - 10
D853	C - 7	D966	C - 10
D854	D - 7	D967	C - 11
D855	C - 7	D968	C - 11
D856	C - 7	D969	C - 11
D857	C - 7	D970	C - 11
D858	D - 7	D971	C - 3 (POWER SW)
D859	C - 7		
D860	C - 7	D971	C - 11 (RS-232C)
D861	C - 7	D972	C - 11
D862	D - 7		
D863	C - 8		
D864	C - 8	IC851	D - 7
D865	C - 8	IC852	D - 6
D866	D - 8	IC853	E - 8
D867	C - 6	IC961	D - 10
D868	C - 6		
D869	C - 6		
D870	D - 6		
D871	C - 6		
D872	C - 6		
D873	C - 6		
D874	D - 6		
D875	C - 6		
D876	C - 6		
D877	C - 6		
D878	D - 6		
D879	C - 6		
D880	C - 6		
D881	C - 6		
D882	D - 6		
D961	C - 10		
D962	C - 10		
D963	C - 10		

3-10. PRINTED WIRING BOARDS – PI-1/RS-232C SECTION –


1
2
3
4
5
A
B
C
D
E
F
【POWER SW BOARD】
POWER-SW
POWER
ON ←→ OFF
CN971
4
1
SONY
MADE IN JAPAN
1-659-189-11
D971
D971
POWER
1-659-189-
11
【LOCK SW BOARD】
1-659-188-11
LOCK
SW951
OFF ←→ ON
LOCK-SW
1
2
CN951
SONY
MADE IN JAPAN
1-659-188-
11
D
CONTROL BOARD
CN602
(Page 22)
(Page 26)
E
CONTROL BOARD
CN602
(Page 22)
(Page 26)

Note:

- ○— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.

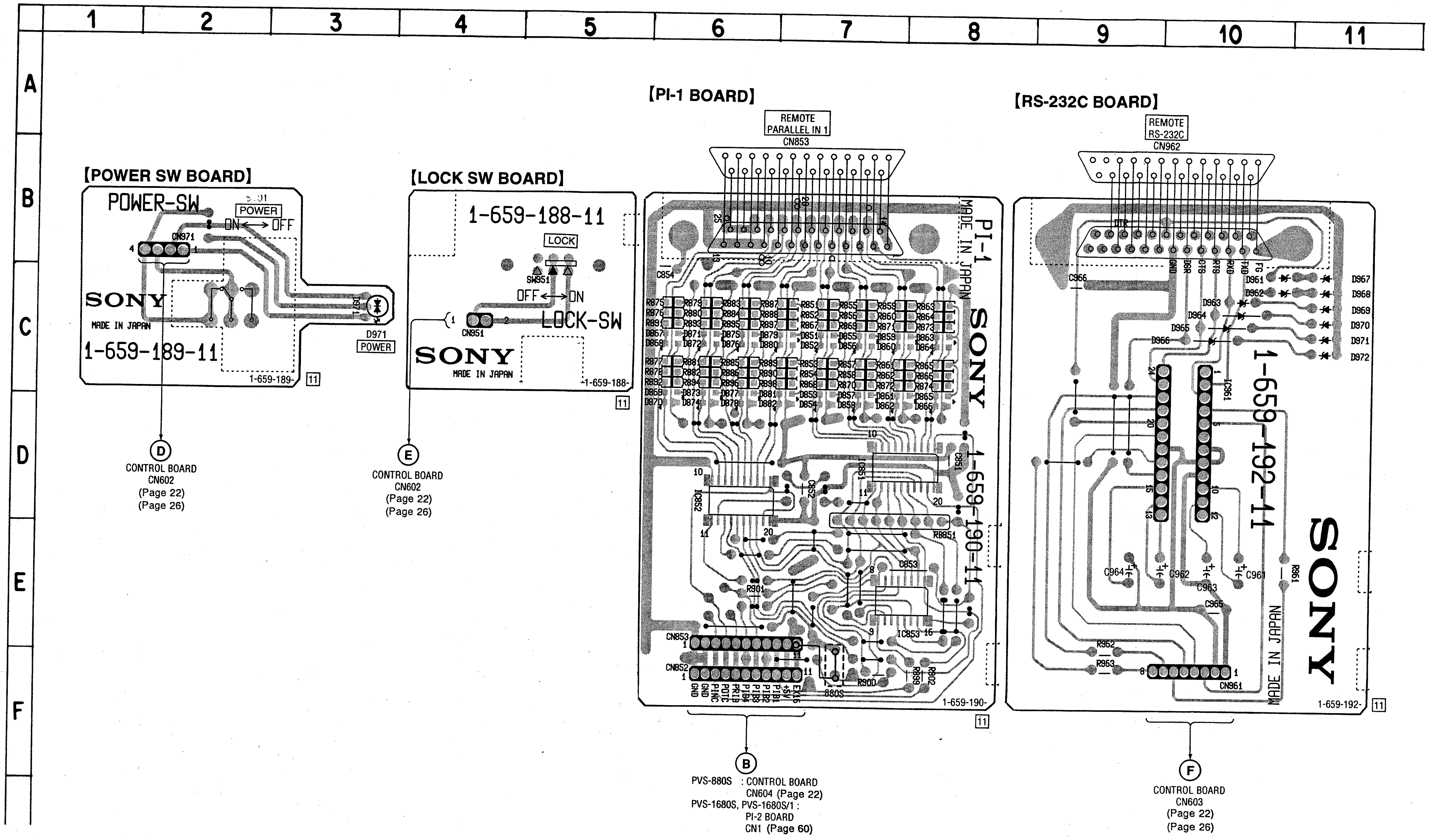
● プリント図ノート

- ○— : 部品面側取付のリード線。
- ▨ : 見ている面側のパターン。

- **SEMICONDUCTOR LOCATION**

Ref. No.	Location	Ref. No.	Location
D851	C-7	D964	C-10
D852	C-7	D965	C-10
D853	C-7	D966	C-10
D854	D-7	D967	C-11
D855	C-7	D968	C-11
D856	C-7	D969	C-11
D857	C-7	D970	C-11
D858	D-7	D971	C-3 (POWER SW)
D859	C-7		
D860	C-7	D971	C-11 (RS-232C)
D861	C-7	D972	C-11
D862	D-7		
D863	C-8		
D864	C-8	IC851	D-7
D865	C-8	IC852	D-6
		IC853	E-8
D866	D-8	IC961	D-10
D867	C-6		
D868	C-6		
D869	C-6		
D870	D-6		
D871	C-6		
D872	C-6		
D873	C-6		
D874	D-6		
D875	C-6		
D876	C-6		
D877	C-6		
D878	D-6		
D879	C-6		
D880	C-6		
D881	C-6		
D882	D-6		
D961	C-10		
D962	C-10		
D963	C-10		

3-10. PRINTED WIRING BOARDS – PI-1/RS-232C SECTION –


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
【POWER SW BOARD】
POWER-SW
S901
POWER
ON ← → OFF
CN971
SONY
MADE IN JAPAN
1-659-189-11
D971
POWER
1-659-189-
11
【LOCK SW BOARD】
1-659-188-11
LOCK
SW851
OFF ← → ON
LOCK-SW
CN851
SONY
MADE IN JAPAN
1-659-188-
11
【PI-1 BOARD】
REMOTE
PARALLEL IN 1
CN853
PI-1
MADE IN JAPAN
SONY
1-659-190-11
IC851
IC852
IC853
R901
R900
880S
CN853
CN852
GND
GND
PINC
PDTC
PRTB
PIB4
PIB3
PIB2
PIB1
+5V
EXT6
1-659-190-
11
【RS-232C BOARD】
REMOTE
RS-232C
CN962
IC961
1-659-192-11
SONY
MADE IN JAPAN
CN961
D967
D968
D969
D970
D971
D972
1-659-192-
11
D
CONTROL BOARD
CN602
(Page 22)
(Page 26)
E
CONTROL BOARD
CN602
(Page 22)
(Page 26)
B
PVS-880S : CONTROL BOARD
CN604 (Page 22)
PVS-1680S, PVS-1680S/1 :
PI-2 BOARD
CN1 (Page 60)
F
CONTROL BOARD
CN603
(Page 22)
(Page 26)

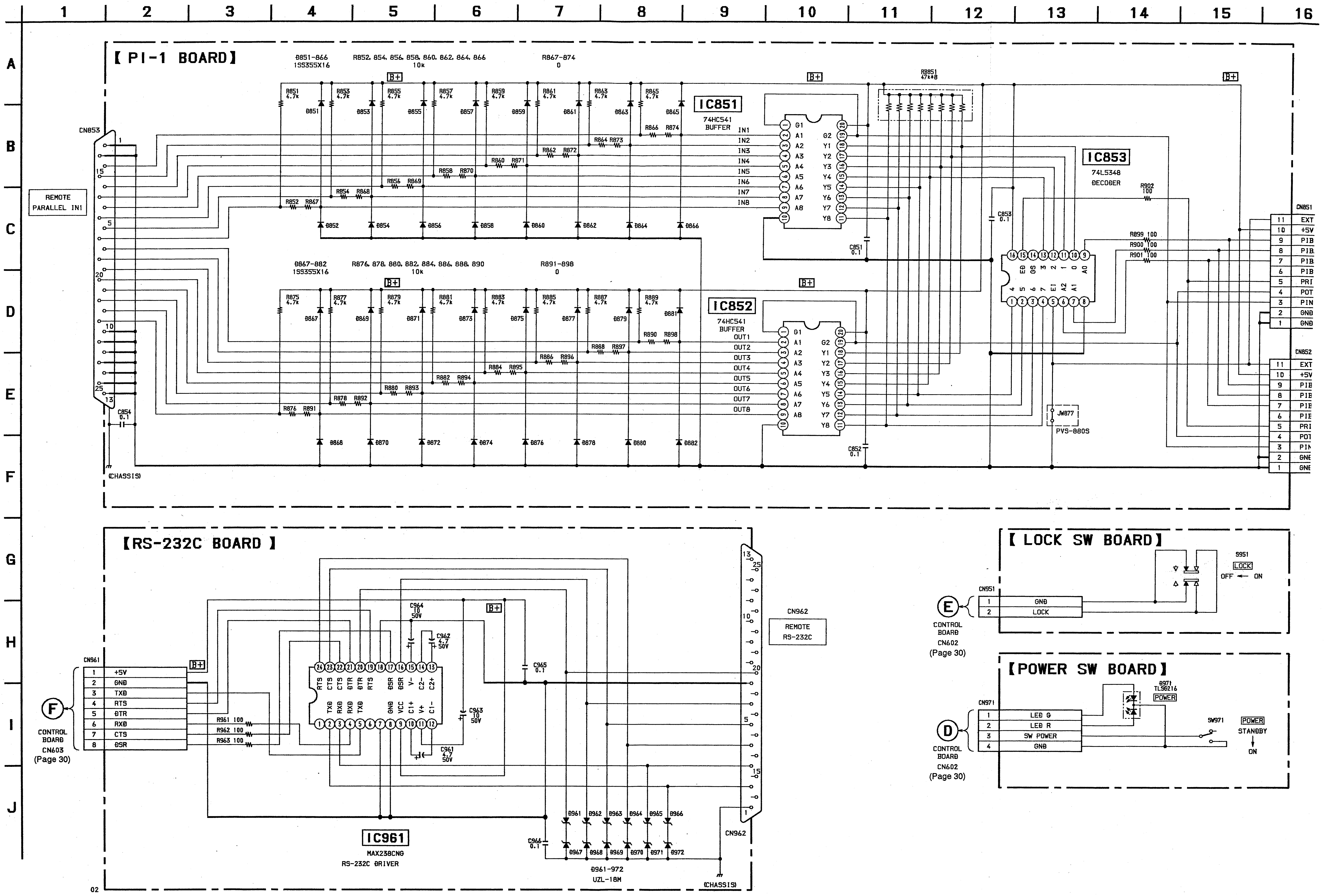
Note:

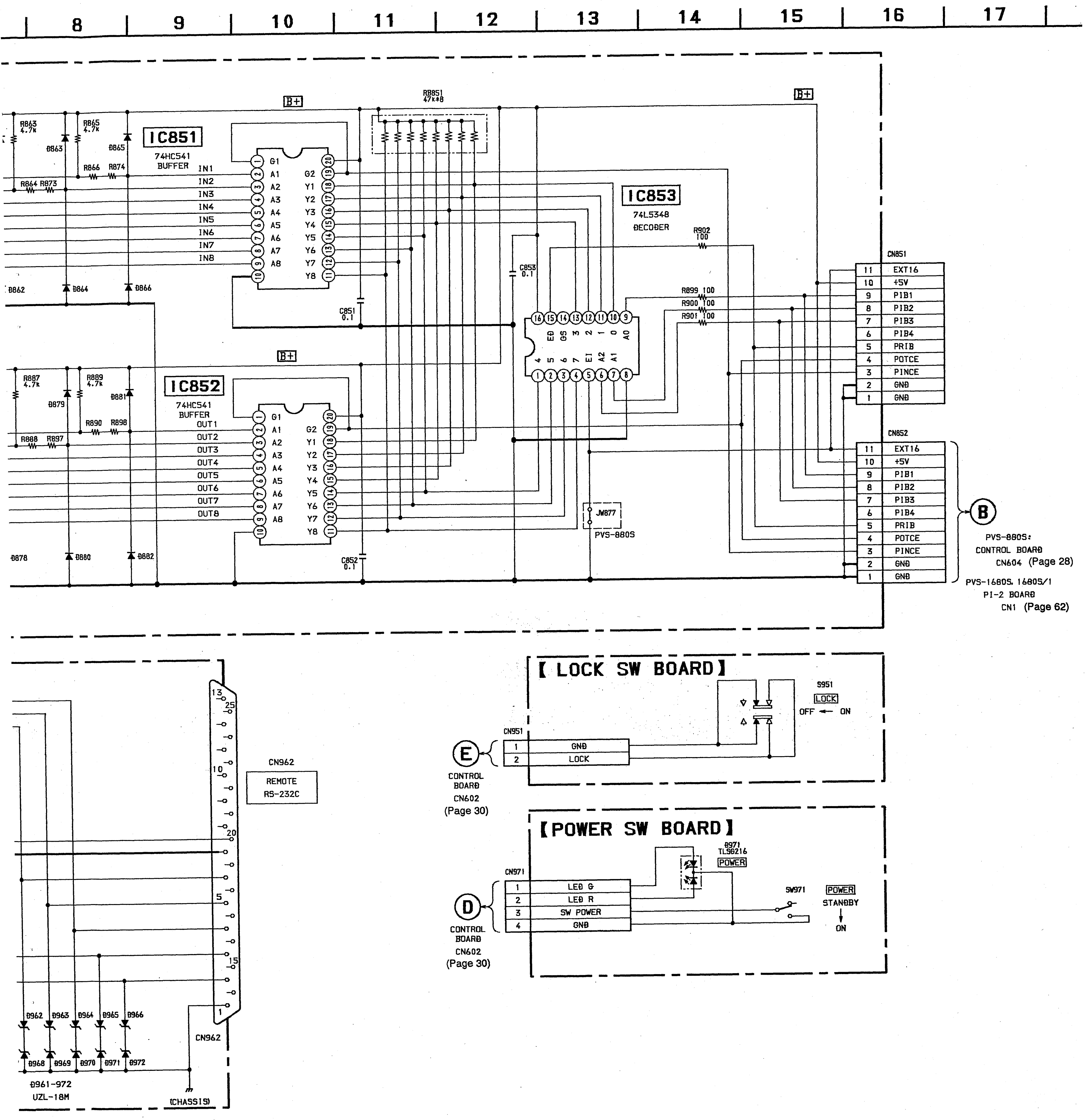
- ○— : parts extracted from the component side.
- ░ : Pattern on the side which is seen.

● プリント図ノート

- ○— : 部品面側取付のリード線。
- ░ : 見ている面側のパターン。

3-11. SCHEMATIC DIAGRAM – PI-1/RS-232C SECTION – • Refer to page 42 for IC Block Diagrams.


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
【PI-1 BOARD】
D851-866 1SS355X16
R852, 854, 856, 858, 860, 862, 864, 866 10k
R867-874 0
CN853
REMOTE PARALLEL IN1
IC851
74HC541 BUFFER
IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8
G1 A1 A2 A3 A4 A5 A6 A7 A8 G2 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
RB851 47k×8
IC853
74LS348 DECODER
R902 100
R899 100
R900 100
R901 100
C851 0.1
C853 0.1
D867-882 1SS355X16
R876, 878, 880, 882, 884, 886, 888, 890 10k
R891-898 0
IC852
74HC541 BUFFER
OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7 OUT8
C852 0.1
C854 0.1
JW877
PVS-880S
(CHASSIS)
CN851
EXT +5V PIB PIB PIB PIB PRI POT PIN GND GND
CN852
EXT +5V PIB PIB PIB PIB PRI POT PIN GNE GNE
B+
【RS-232C BOARD】
CN961
+5V GND TXD RTS DTR RXD CTS DSR
F
CONTROL BOARD CN603 (Page 30)
R961 100
R962 100
R963 100
C964 10 50V
C962 4.7 50V
C963 10 50V
C961 4.7 50V
C965 0.1
C966 0.1
RTS CTS CTS DTR DTR RTS DSR DSR V- C2- C2+
TXD RXD RXD TXD GND VCC C1+ V+ C1-
IC961
MAX238CNG
RS-232C DRIVER
D961 D962 D963 D964 D965 D966
D967 D968 D969 D970 D971 D972
D961-972 UZL-18M
CN962
REMOTE RS-232C
(CHASSIS)
02
【LOCK SW BOARD】
CN951
GND LOCK
E
CONTROL BOARD CN602 (Page 30)
S951
LOCK
OFF ← ON
【POWER SW BOARD】
CN971
LED G LED R SW POWER GND
D
CONTROL BOARD CN602 (Page 30)
D971 TLS8216
POWER
SW971
POWER
STANDBY
ON


8
9
10
11
12
13
14
15
16
17
B+
R8851 47k×8
R863 4.7k
R865 4.7k
B863
B865
IC851
74HC541
BUFFER
R866
R874
R864
R873
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
G1
A1
A2
A3
A4
A5
A6
A7
A8
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
B862
B864
B866
C851 0.1
IC853
74LS348
DECODER
R902 100
C853 0.1
R899 100
R900 100
R901 100
EO
GS
EI
A0
A1
A2
CN851
EXT16
+5V
PIB1
PIB2
PIB3
PIB4
PRIB
POTCE
PINCE
GND
R887 4.7k
R889 4.7k
B879
B881
IC852
74HC541
BUFFER
R890
R898
R888
R897
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
OUT8
B878
B880
B882
C852 0.1
JW877
PVS-880S
CN852
B
PVS-880S:
CONTROL BOARD
CN604 (Page 28)
PVS-1680S, 1680S/1
PI-2 BOARD
CN1 (Page 62)
13
25
10
20
5
15
1
CN962
REMOTE
RS-232C
B962
B963
B964
B965
B966
B968
B969
B970
B971
B972
B961-972
UZL-18M
(CHASSIS)
[LOCK SW BOARD]
S951
LOCK
OFF ← ON
CN951
LOCK
E
CONTROL BOARD
CN602
(Page 30)
[POWER SW BOARD]
B971
TLS9216
POWER
CN971
LED G
LED R
SW POWER
SW971
STANDBY
ON
D
CONTROL BOARD
CN602
(Page 30)

PI-1 BOARD IC VOLTAGE LIST

	Pin	Volt		Pin	Volt		Pin	Volt
IC1	①	5		⑬	5.1		⑤	GND
	②	5.1		⑭	5.1		⑥	5.1
	③	5.1		⑮	5.1		⑦	5.1
	④	·5.1		⑯	5.1		⑧	GND
	⑤	5.1		⑰	5.1		⑨	5.1
	⑥	5.1		⑱	5.1		⑩	5.1
	⑦	5.1		⑲	5		⑪	5.1
	⑧	5.1		⑳	5.1		⑫	5.1
	⑨	5.1	IC3	①	5.1		⑬	5.1
	⑩	GND		②	5.1		⑭	4
	⑪	5.1		③	5.1		⑮	0.1
	⑫	5.1		④	5.1		⑯	5.1

RS-232C BOARD IC VOLTAGE LIST

	Pin	Volt		Pin	Volt
IC961	①	NC		⑬	5.3
	②	− 9.9		⑭	− 4.7
	③	0		⑮	− 9.9
	④	5.1		⑯	0
	⑤	5.1		⑰	5.1
	⑥	NC		⑱	GND
	⑦	GND		⑲	0
	⑧	GND		⑳	9.7
	⑨	5.1		㉑	0
	⑩	7.4		㉒	5.1
	⑪	10		㉓	0
	⑫	2.4		㉔	9.7

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- **B+** : B+ Line
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

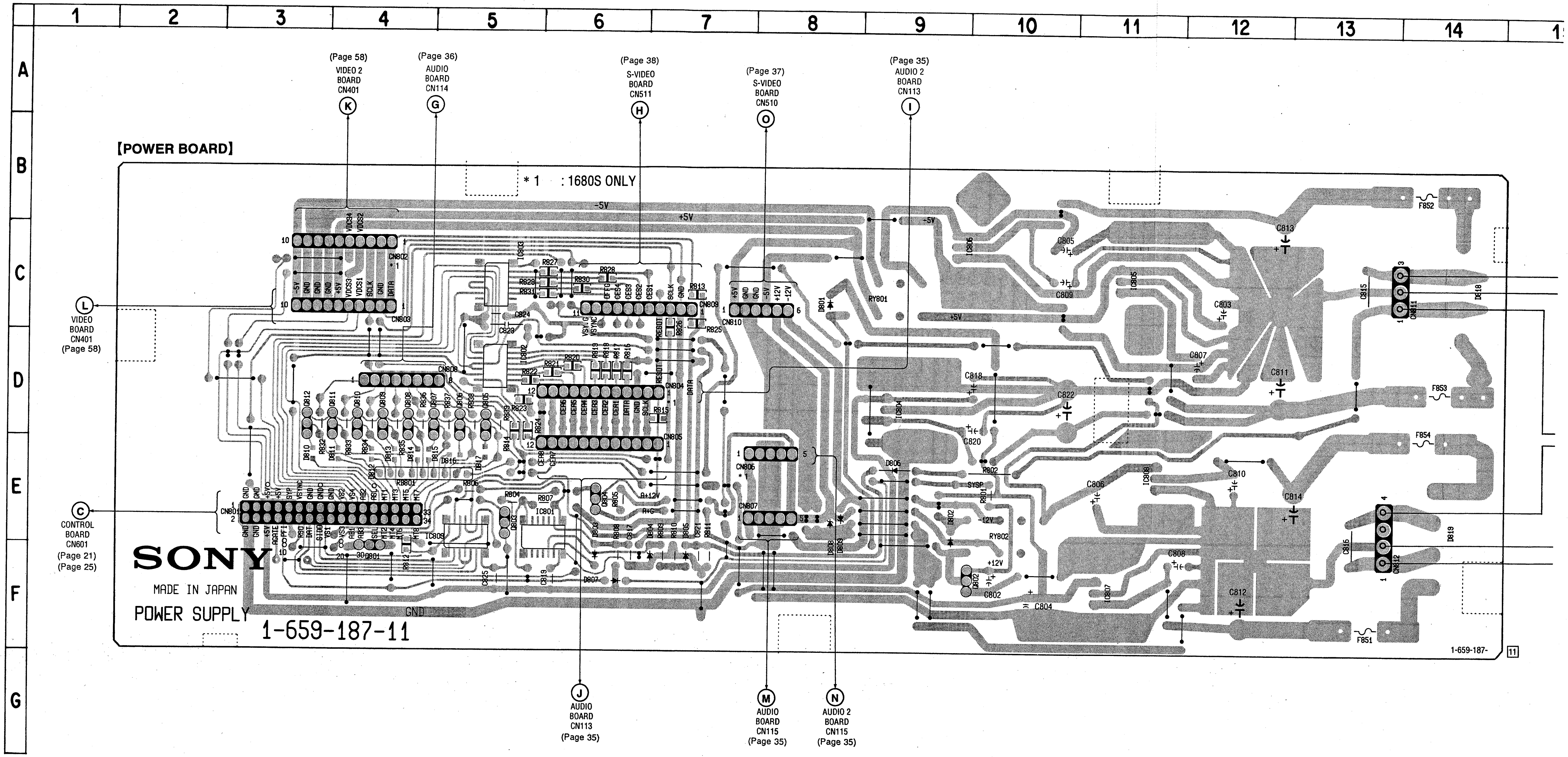
● 回路図ノート

- ケミコン, タンタルを除くコンデンサーで, 耐圧50V以下のものは, その耐圧を省略。 単位はすべてμF（pはpF)。
- 抵抗で指示のないものは¼W以下を示す。 単位はすべてΩ。
- **B+** ：B＋ライン。
- 電圧は, 対アース間を無信号状態で測定。
- 電圧値は, テスター（入力インピーダンス 10MΩ）で測定した参考値。

3-12. PRINTED WIRING BOARDS – POWER SECTION –

- **SEMICONDUCTOR LOCATION**

Ref. No.	Location
D801	C - 8
D802	E - 9
D803	F - 6
D804	F - 7
D805	F - 7
D806	E - 9
D807	F - 6
D808	E - 8
D809	E - 8
D810	E - 3
D811	E - 4
D812	E - 4
D813	E - 4
D814	E - 4
D815	E - 5
D816	E - 5
D817	E - 5
D818	C - 14
D819	E - 14
IC801	E - 6
IC802	D - 5
IC803	C - 5
IC804	D - 9
IC805	C - 11
IC806	C - 9
IC807	F - 11
IC808	E - 11
IC809	E - 5
Q801	F - 4
Q802	F - 10
Q803	E - 5
Q804	E - 6
Q805	D - 5
Q806	D - 5
Q807	D - 5
Q808	D - 4
Q809	D - 4
Q810	D - 4
Q811	D - 4
Q812	D - 3

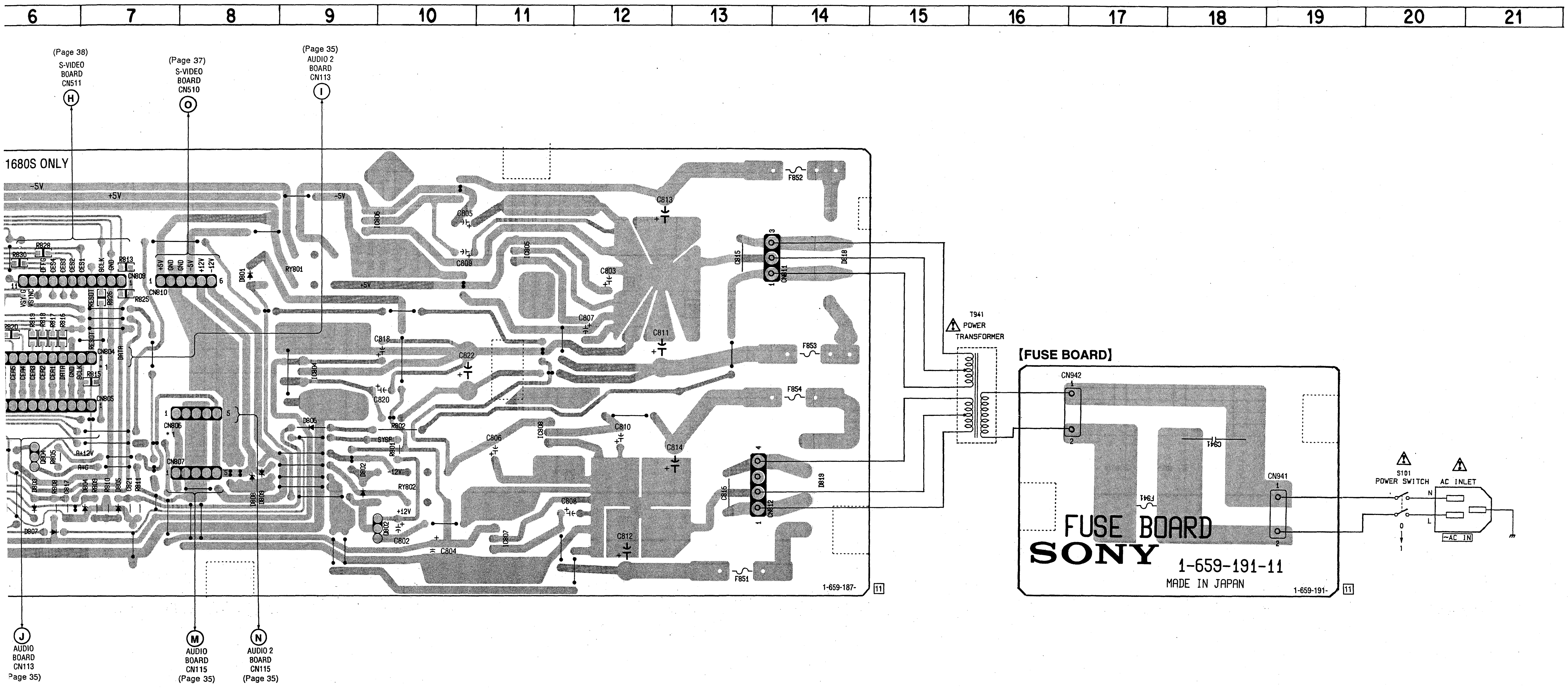

1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
【POWER BOARD】
* 1 : 1680S ONLY
(Page 58) VIDEO 2 BOARD CN401
K
(Page 36) AUDIO BOARD CN114
G
(Page 38) S-VIDEO BOARD CN511
H
(Page 37) S-VIDEO BOARD CN510
O
(Page 35) AUDIO 2 BOARD CN113
I
L
VIDEO BOARD CN401 (Page 58)
C
CONTROL BOARD CN601 (Page 21) (Page 25)
J
AUDIO BOARD CN113 (Page 35)
M
AUDIO BOARD CN115 (Page 35)
N
AUDIO 2 BOARD CN115 (Page 35)
SONY
MADE IN JAPAN
POWER SUPPLY
1-659-187-11
1-659-187-
11
-5V
+5V
GND
CN801
CN802
CN803
CN804
CN805
CN806
CN807
CN808
CN809
CN810
CN811
CN812
RY801
RY802
F851
F852
F853
F854

Note:

- ○— : parts extracted from the component side.
- ░ : Pattern on the side which is seen.

- ● プリント図ノート

- ○—：部品面側取付のリード線。
- ░：見ている面側のパターン。


6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
(Page 38) S-VIDEO BOARD CN511
H
(Page 37) S-VIDEO BOARD CN510
O
(Page 35) AUDIO 2 BOARD CN113
I
1680S ONLY
-5V
+5V
R828
R830
R813
CN809
CN810
R826
R825
+5V
GND
GND
-5V
+12V
-12V
D801
RY801
C806
C805
C809
IC805
C813
C803
C807
C811
CN811
C815
D818
F852
F853
F854
C818
C822
C820
IC804
CN804
CN805
CN806
CN807
R815
R820
DATA
RESET
SCLK
GND
D805
R802
SYSP
R801
D802
-12V
RY802
+12V
C802
C804
C806
C808
C810
C814
C816
C812
IC807
IC808
D819
CN812
F851
D806
D803
D807
R+12V
R+C
1-659-187-
11
T941
POWER TRANSFORMER
[FUSE BOARD]
CN942
C941
F941
CN941
FUSE BOARD
SONY
1-659-191-11
MADE IN JAPAN
1-659-191-
11
S101
POWER SWITCH
AC INLET
~AC IN
N
L
0
1
J
AUDIO BOARD CN113 (Page 35)
M
AUDIO BOARD CN115 (Page 35)
N
AUDIO 2 BOARD CN115 (Page 35)

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.

> Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
> Replace only with part number specified.

- **B+** : B+ Line
- **B –** : B – Line
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

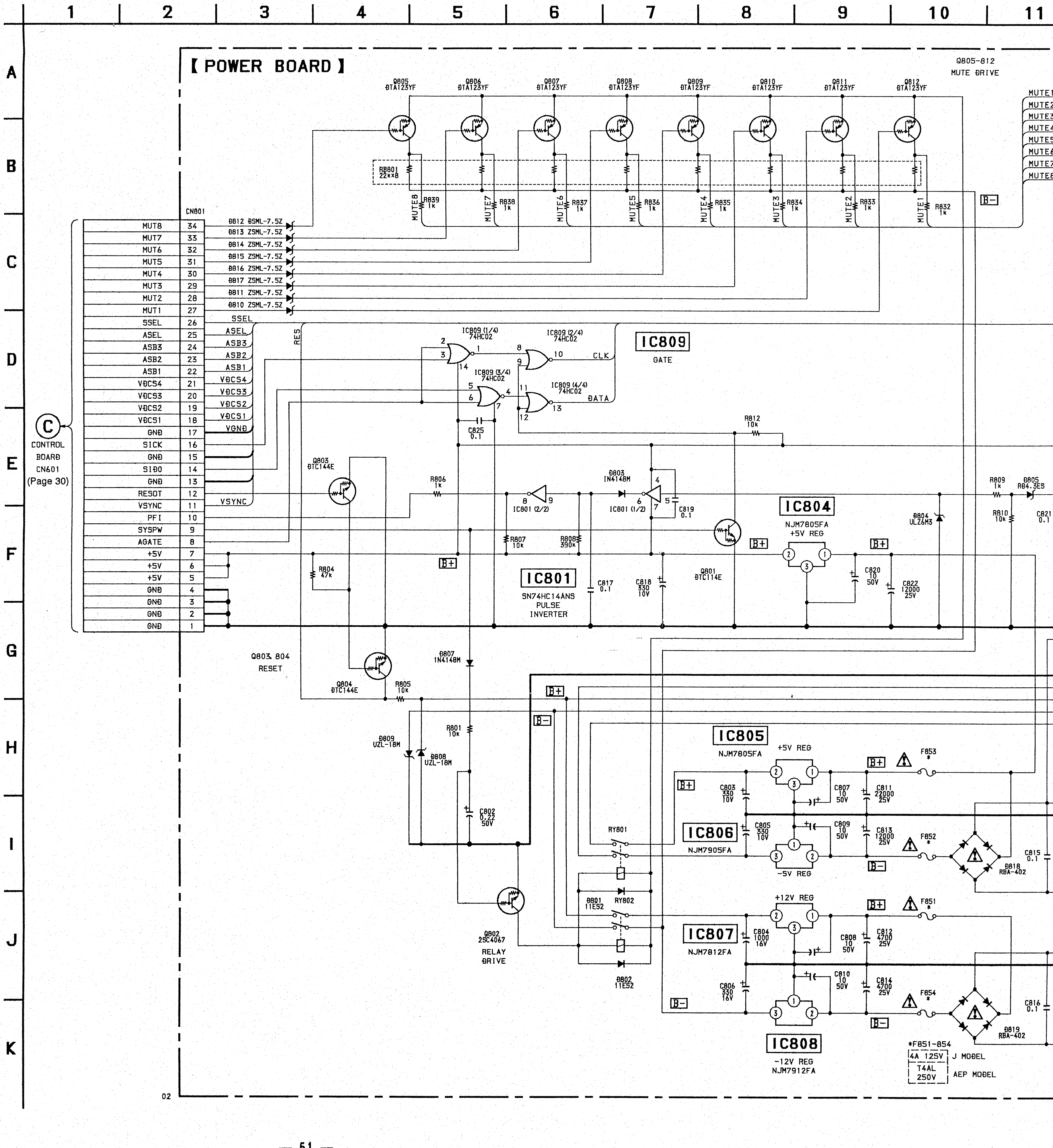
● 回路図ノート

- ケミコン，タンタルを除くコンデンサーで，耐圧50V以下のものは，その耐圧を省略。単位はすべてμ F（pはpF）。
- 抵抗で指示のないものは¼W以下を示す。単位はすべてΩ。

> ⚠印の部品，または⚠印付の点線で囲まれた部品は，安全性を維持するために，重要な部品です。
> 従って交換時は，必ず指定の部品を使用して下さい。

- **B+** ：B＋ライン。
- **B –** ：B－ライン。
- 電圧は，対アース間を無信号状態で測定。
- 電圧値は，テスター（入力インピーダンス 10MΩ）で測定した参考値。

3-13. SCHEMATIC DIAGRAM – POWER SECTION –


1
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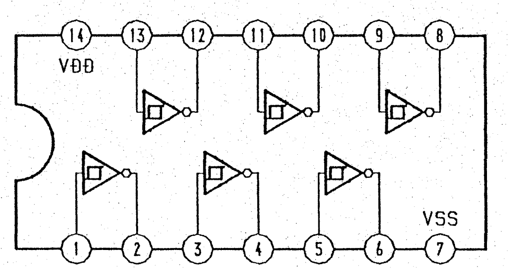
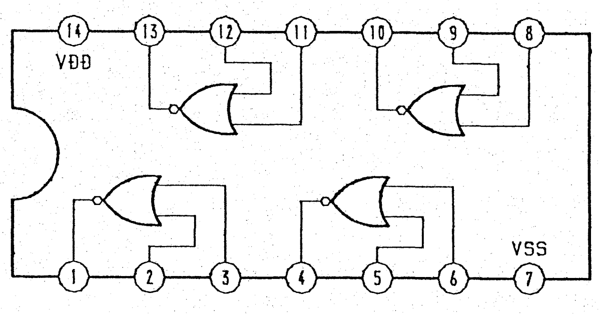
10
11
A
B
C
D
E
F
G
H
I
J
K
【POWER BOARD】
C
CONTROL BOARD CN601 (Page 30)
CN801
MUT8 34
MUT7 33
MUT6 32
MUT5 31
MUT4 30
MUT3 29
MUT2 28
MUT1 27
SSEL 26
ASEL 25
ASB3 24
ASB2 23
ASB1 22
VDCS4 21
VDCS3 20
VDCS2 19
VDCS1 18
GND 17
SICK 16
GND 15
SIDO 14
GND 13
RESOT 12
VSYNC 11
PFI 10
SYSPW 9
AGATE 8
+5V 7
+5V 6
+5V 5
GND 4
GND 3
GND 2
GND 1
D812 DSML-7.5Z
D813 ZSML-7.5Z
D814 ZSML-7.5Z
D815 ZSML-7.5Z
D816 ZSML-7.5Z
D817 ZSML-7.5Z
D811 ZSML-7.5Z
D810 ZSML-7.5Z
SSEL
ASEL
ASB3
ASB2
ASB1
VDCS4
VDCS3
VDCS2
VDCS1
VGND
VSYNC
RES
Q805-812
MUTE DRIVE
Q805 DTA123YF
Q806 DTA123YF
Q807 DTA123YF
Q808 DTA123YF
Q809 DTA123YF
Q810 DTA123YF
Q811 DTA123YF
Q812 DTA123YF
RB801 22k×8
MUTE8
MUTE7
MUTE6
MUTE5
MUTE4
MUTE3
MUTE2
MUTE1
R839 1k
R838 1k
R837 1k
R836 1k
R835 1k
R834 1k
R833 1k
R832 1k
B–
IC809 (1/4) 74HC02
IC809 (2/4) 74HC02
IC809 (3/4) 74HC02
IC809 (4/4) 74HC02
CLK
DATA
IC809
GATE
C825 0.1
R812 10k
Q803 DTC144E
R806 1k
IC801 (2/2)
D803 1N4148M
IC801 (1/2)
C819 0.1
IC804
NJM7805FA
+5V REG
R809 1k
D805 RD4.3ES
R810 10k
C821 0.1
D804 ULZ6M3
R804 47k
B+
R807 10k
R808 390k
IC801
SN74HC14ANS
PULSE
INVERTER
C817 0.1
C818 330 10V
Q801 DTC114E
C820 10 50V
C822 12000 25V
Q803, 804
RESET
Q804 DTC144E
R805 10k
D807 1N4148M
R801 10k
D809 UZL-18M
D808 UZL-18M
C802 0.22 50V
Q802 2SC4067
RELAY
DRIVE
RY801
D801 11E52
RY802
D802 11E52
IC805
NJM7805FA
+5V REG
C803 330 10V
C807 10 50V
C811 22000 25V
F853 *
IC806
NJM7905FA
-5V REG
C805 330 10V
C809 10 50V
C813 12000 25V
F852 *
D818 RBA-402
C815 0.1
+12V REG
IC807
NJM7812FA
C804 1000 16V
C808 10 50V
C812 4700 25V
F851 *
IC808
-12V REG
NJM7912FA
C806 330 16V
C810 10 50V
C814 4700 25V
F854 *
D819 RBA-402
C816 0.1
*F851-854
4A 125V J MODEL
T4AL 250V AEP MODEL
02

- IC BLOCK DIAGRAMS (POWER SECTION)

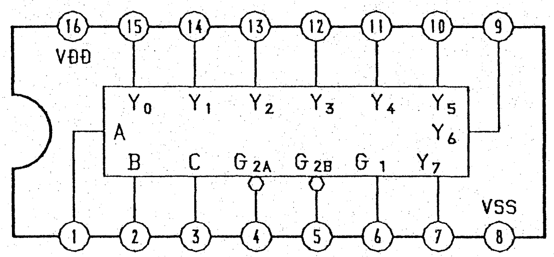
IC801 SN74HC14ANS


14
13
12
11
10
9
8
VDD
VSS
1
2
3
4
5
6
7

IC809 SN74HC02ANS


14
13
12
11
10
9
8
VDD
VSS
1
2
3
4
5
6
7

IC802, 803 TC74HC238AF

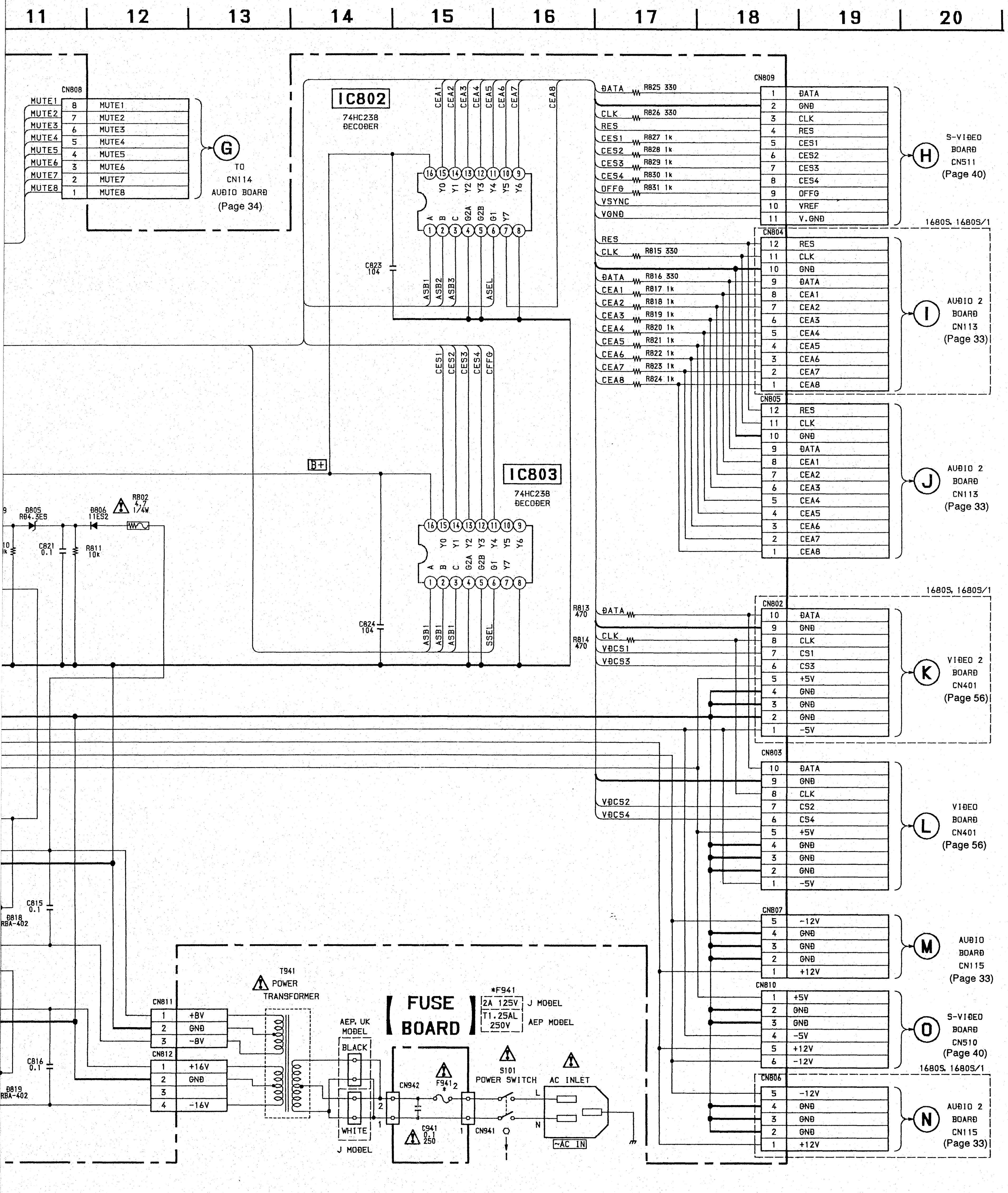

16
15
14
13
12
11
10
9
VDD
Y_0
Y_1
Y_2
Y_3
Y_4
Y_5
Y_6
A
B
C
G_{2A}
G_{2B}
G_1
Y_7
VSS
1
2
3
4
5
6
7
8

POWER BOARD
TRANSISTOR VOLTAGE LIST

	E	C	B
Q801	GND	0	5.1
802	GND	0.1	0.1
803	GND	0	5.1
804	GND	12.1	0
Q805-812	12.1	– 12.1	12.1

POWER BOARD
IC VOLTAGE LIST

	Pin	Volt
IC801	①	0.8
	②	5.1
	③	2.2
	④	5.1
	⑤	1.3
	⑥	3.6
	⑦	GND
	⑧	5.1
	⑨	0.8
	⑩	0
	⑪	2.2
	⑫	0
	⑬	2.2
	⑭	5.1
IC802	①	0
	②	0
	③	5.1
	④	GND
	⑤	GND
	⑥	0
	⑦	0
	⑧	GND
	⑨	0
	⑩	0
	⑪	0
	⑫	0
	⑬	0
	⑭	0
	⑮	0
	⑯	5.1
IC803	①	0
	②	0
	③	5.1
	④	GND
	⑤	GND
	⑥	0
	⑦	NC
	⑧	GND
	⑨	NC
	⑩	NC
	⑪	0
	⑫	0
	⑬	0
	⑭	0
	⑮	0
	⑯	5.1
IC804	①	7.8
	②	5.1
	③	GND
IC805	①	7.5
	②	5.1
	③	GND
IC806	①	GND
	②	– 8.2
	③	– 4.9
IC807	①	16.4
	②	12.1
	③	GND
IC808	①	GND
	②	– 16.7
	③	– 12.2
IC809	①	0
	②	0.4
	③	5.1
	④	0
	⑤	5.1
	⑥	0
	⑦	GND
	⑧	0
	⑨	0
	⑩	5.1
	⑪	0
	⑫	0
	⑬	5.1
	⑭	5.1


11
12
13
14
15
16
17
18
19
20
CN808
MUTE1
MUTE2
MUTE3
MUTE4
MUTE5
MUTE6
MUTE7
MUTE8
G
TO
CN114
AUDIO BOARD
(Page 34)
IC802
74HC238
DECODER
CEA1
CEA2
CEA3
CEA4
CEA5
CEA6
CEA7
CEA8
ASB1
ASB2
ASB3
ASEL
C823
104
IC803
74HC238
DECODER
CES1
CES2
CES3
CES4
CFFG
SSEL
C824
104
B+
D805
RD4.3ES
D806
11ES2
R802
4.7
1/4W
C821
0.1
R811
10k
R813
470
R814
470
DATA
CLK
RES
CES1
CES2
CES3
CES4
DFFG
VSYNC
VGND
R825 330
R826 330
R827 1k
R828 1k
R829 1k
R830 1k
R831 1k
R815 330
R816 330
R817 1k
R818 1k
R819 1k
R820 1k
R821 1k
R822 1k
R823 1k
R824 1k
VDCS1
VDCS3
VDCS2
VDCS4
CN809
VREF
V.GND
H
S-VIDEO
BOARD
CN511
(Page 40)
1680S, 1680S/1
CN804
I
AUDIO 2
BOARD
CN113
(Page 33)
CN805
J
AUDIO 2
BOARD
CN113
(Page 33)
CN802
CS1
CS3
+5V
GND
-5V
K
VIDEO 2
BOARD
CN401
(Page 56)
CN803
CS2
CS4
L
VIDEO
BOARD
CN401
(Page 56)
CN807
-12V
+12V
M
AUDIO
BOARD
CN115
(Page 33)
CN810
+5V
-5V
+12V
-12V
O
S-VIDEO
BOARD
CN510
(Page 40)
CN806
N
AUDIO 2
BOARD
CN115
(Page 33)
C815
0.1
D818
RBA-402
C816
0.1
D819
RBA-402
CN811
+8V
-8V
CN812
+16V
-16V
T941
POWER
TRANSFORMER
AEP, UK
MODEL
BLACK
WHITE
J MODEL
FUSE
BOARD
*F941
2A 125V
J MODEL
T1.25AL
250V
AEP MODEL
CN942
F941
C941
0.1
250
CN941
S101
POWER SWITCH
AC INLET
~AC IN

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line
- B − : B − Line

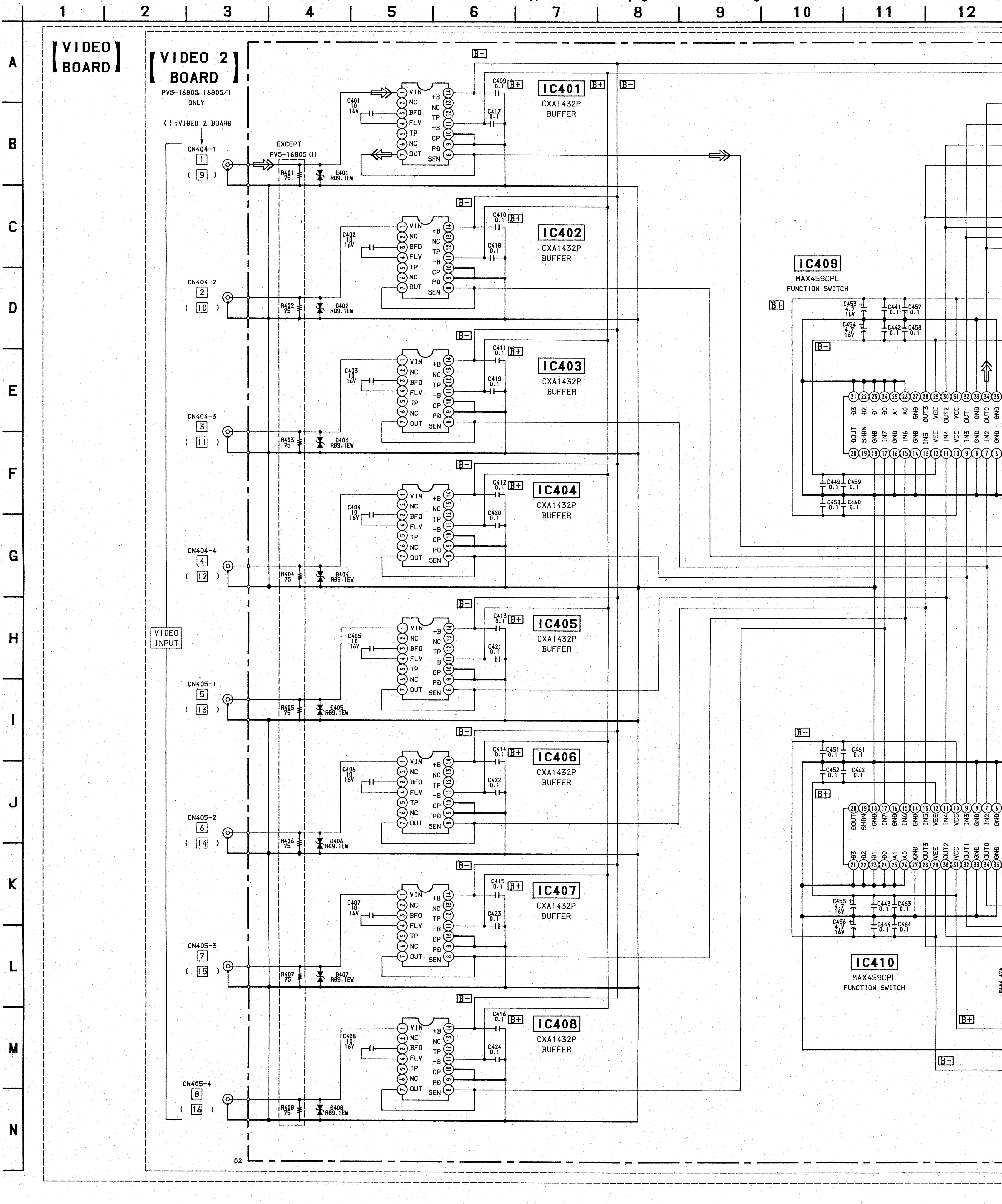
- Voltages are dc with respect
conditions.
- Signal path.
⇨ : VIDEO

- PVS-1680S, 1680S/1 : Use t
- PVS-880S : Uses only the VI

∗ 1 : Drawings shows the PVS
and VIDEO 2 BOARD co

3-14. SCHEMATIC DIAGRAM – VIDEO/VIDEO 2 SECTION – (VIDEO 2 BOARD : PVS-1680S/1680S/1 only)

• Refer to page 59 for IC Block Diagrams.



VIDEO BOARD
VIDEO 2 BOARD
PVS-1680S, 1680S/1 ONLY
( ) ;VIDEO 2 BOARD
EXCEPT PVS-1680S (1)
VIDEO INPUT
CN404-1
CN404-2
CN404-3
CN404-4
CN405-1
CN405-2
CN405-3
CN405-4
IC401
IC402
IC403
IC404
IC405
IC406
IC407
IC408
CXA1432P
BUFFER
IC409
IC410
MAX459CPL
FUNCTION SWITCH
B+
B−
VIN
NC
BFO
FLV
TP
OUT
+B
−B
CP
PD
SEN
R401 75
D401 RB9.1EW
C401 10 16V
C409 0.1
C417 0.1
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N

dc with respect to ground under no-signal

EO

1680S/1 : Use the VIDEO BOARD and VIDEO 2 BOARD.
Uses only the VIDEO BOARD.

shows the PVS-1680S, 1680S/1 with the VIDEO BOARD
O 2 BOARD connected.

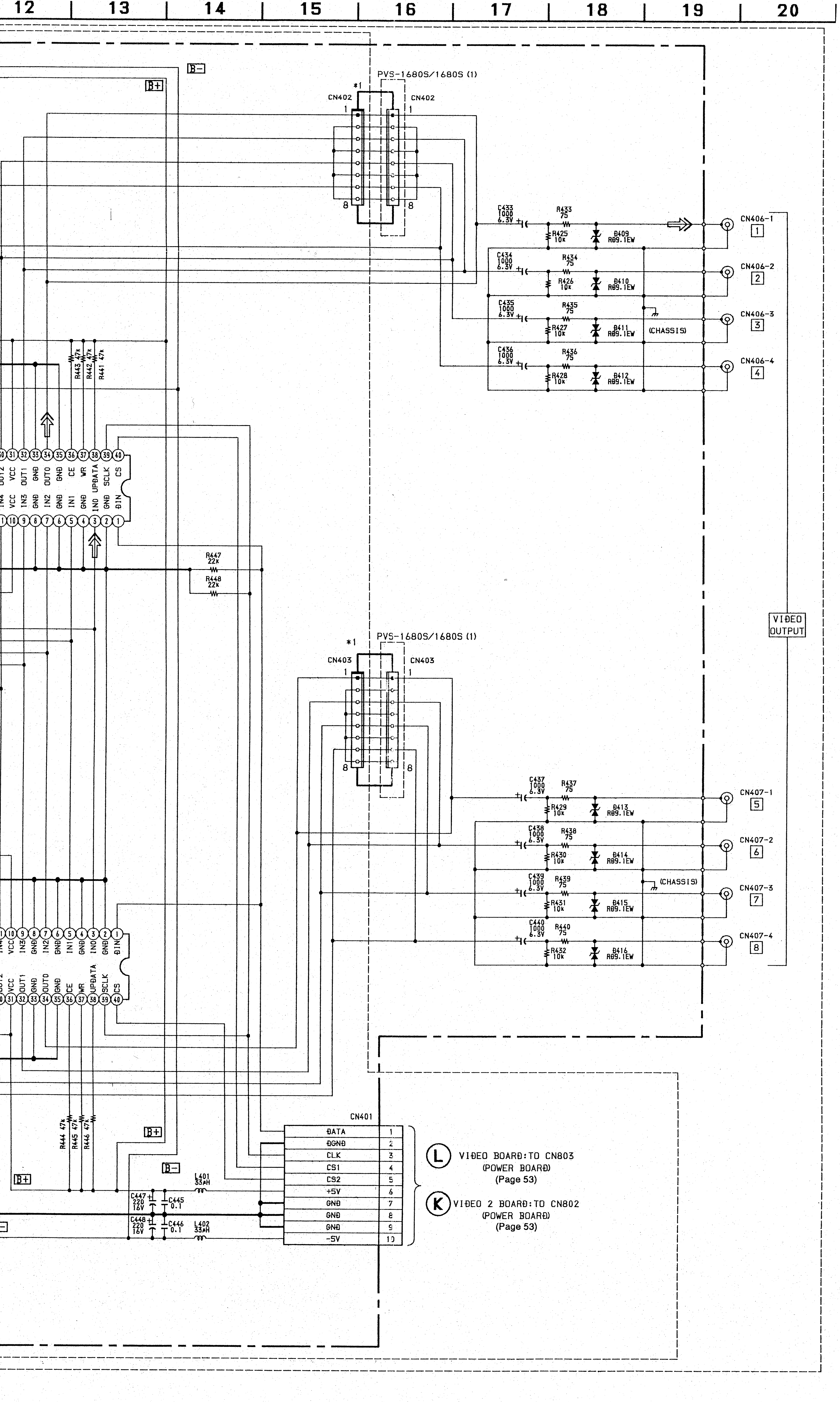
● 回路図ノート

- ケミコン, タンタルを除くコンデンサーで, 耐圧50V以下のものは, その耐圧を省略。 単位はすべてμF（pはpF)。
- 抵抗で指示のないものは¼W以下を示す。 単位はすべてΩ。
- **B+** ：B＋ライン。
- **B－** ：B－ライン。
- 電圧は, 対アース間を無信号状態で測定。
- 電圧値は, テスター（入力インピーダンス 10MΩ）で測定した参考値。
- 信号の流れについて

⇨ : 映像

- PVS-1680S, 1680S/1 : VIDEO BOARDとVIDEO 2 BOARDを使用。
- PVS-880S : VIDEO BOARDのみを使用。

＊1 : PVS-1680S, 1680S/1でVIDEO BOARDとVIDEO 2 BOARDを接続していることを示す。


12
13
14
15
16
17
18
19
20
PVS-1680S/1680S (1)
CN402
CN403
CN401
DATA
DGND
CLK
CS1
CS2
+5V
GND
GND
GND
-5V
VIDEO BOARD:TO CN803 (POWER BOARD) (Page 53)
VIDEO 2 BOARD:TO CN802 (POWER BOARD) (Page 53)
CN406-1
CN406-2
CN406-3
CN406-4
CN407-1
CN407-2
CN407-3
CN407-4
VIDEO OUTPUT
(CHASSIS)
R447 22k
R448 22k
R443 47k
R442 47k
R441 47k
R444 47k
R445 47k
R446 47k
L401 33μH
L402 33μH
C447 220 16V
C448 220 16V
C445 0.1
C446 0.1
B+
B-

VIDEO/VIDEO 2 BOARD IC VOLTAGE LIST

	Pin	Volt		Pin	Volt
IC401 | IC408	①	0		㊲	4.8
	②	0		㊳	4.8
	③	− 0.1		㊴	4.9
	④	0.8		㊵	5.1
	⑤	3.6			
	⑥	0			
	⑦	0			
	⑧	0			
	⑨	GND			
	⑩	0			
	⑪	− 4.7			
	⑫	− 0.2			
	⑬	0			
	⑭	4.8			
IC409 | IC410	①	4.9			
	②	GND			
	③	0			
	④	GND			
	⑤	0			
	⑥	GND			
	⑦	0			
	⑧	GND			
	⑨	0			
	⑩	4.8			
	⑪	0			
	⑫	− 4.7			
	⑬	0			
	⑭	GND			
	⑮	0			
	⑯	GND			
	⑰	0			
	⑱	GND			
	⑲	GND			
	⑳	0.2			
	㉑	GND			
	㉒	GND			
	㉓	GND			
	㉔	GND			
	㉕	GND			
	㉖	GND			
	㉗	GND			
	㉘	0			
	㉙	− 4.7			
	㉚	0			
	㉛	4.8			
	㉜	0			
	㉝	GND			
	㉞	0			
	㉟	GND			
	㊱	4.8			

dc with respect to ground under no-signal

EO

1680S/1 : Use the VIDEO BOARD and VIDEO 2 BOARD.
Jses only the VIDEO BOARD.

shows the PVS-1680S, 1680S/1 with the VIDEO BOARD
O 2 BOARD connected.

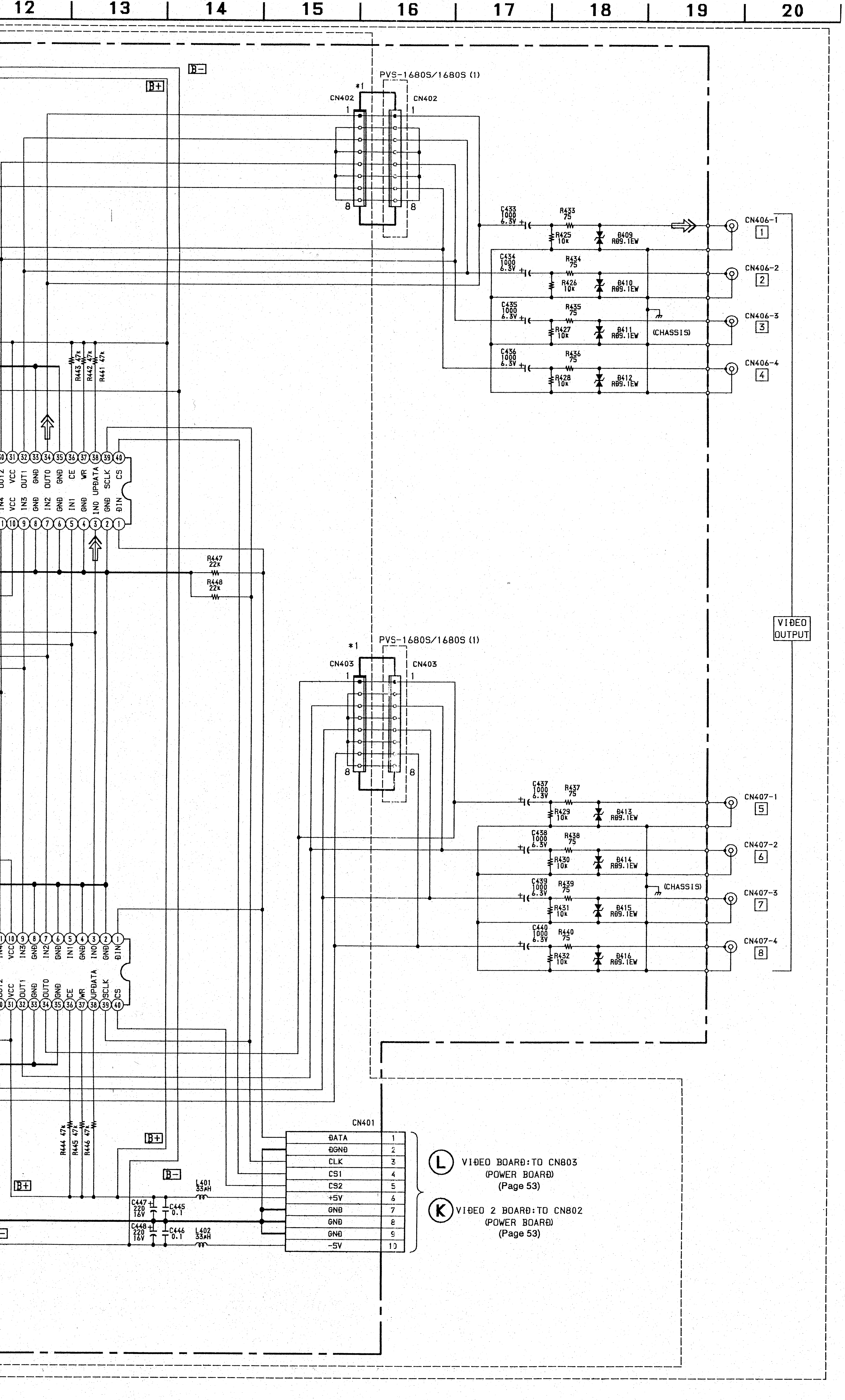
● 回路図ノート

- ケミコン, タンタルを除くコンデンサーで, 耐圧50V以下のものは, その耐圧を省略。単位はすべてμF（pはpF）。
- 抵抗で指示のないものは¼W以下を示す。単位はすべてΩ。
- B+ ：B＋ライン。
- B－ ：B－ライン。
- 電圧は, 対アース間を無信号状態で測定。
- 電圧値は, テスター（入力インピーダンス 10MΩ）で測定した参考値。
- 信号の流れについて

⇨ : 映像

- PVS-1680S, 1680S/1 : VIDEO BOARDとVIDEO 2 BOARDを使用。
- PVS-880S : VIDEO BOARDのみを使用。

＊1 : PVS-1680S, 1680S/1でVIDEO BOARDとVIDEO 2 BOARDを接続していることを示す。

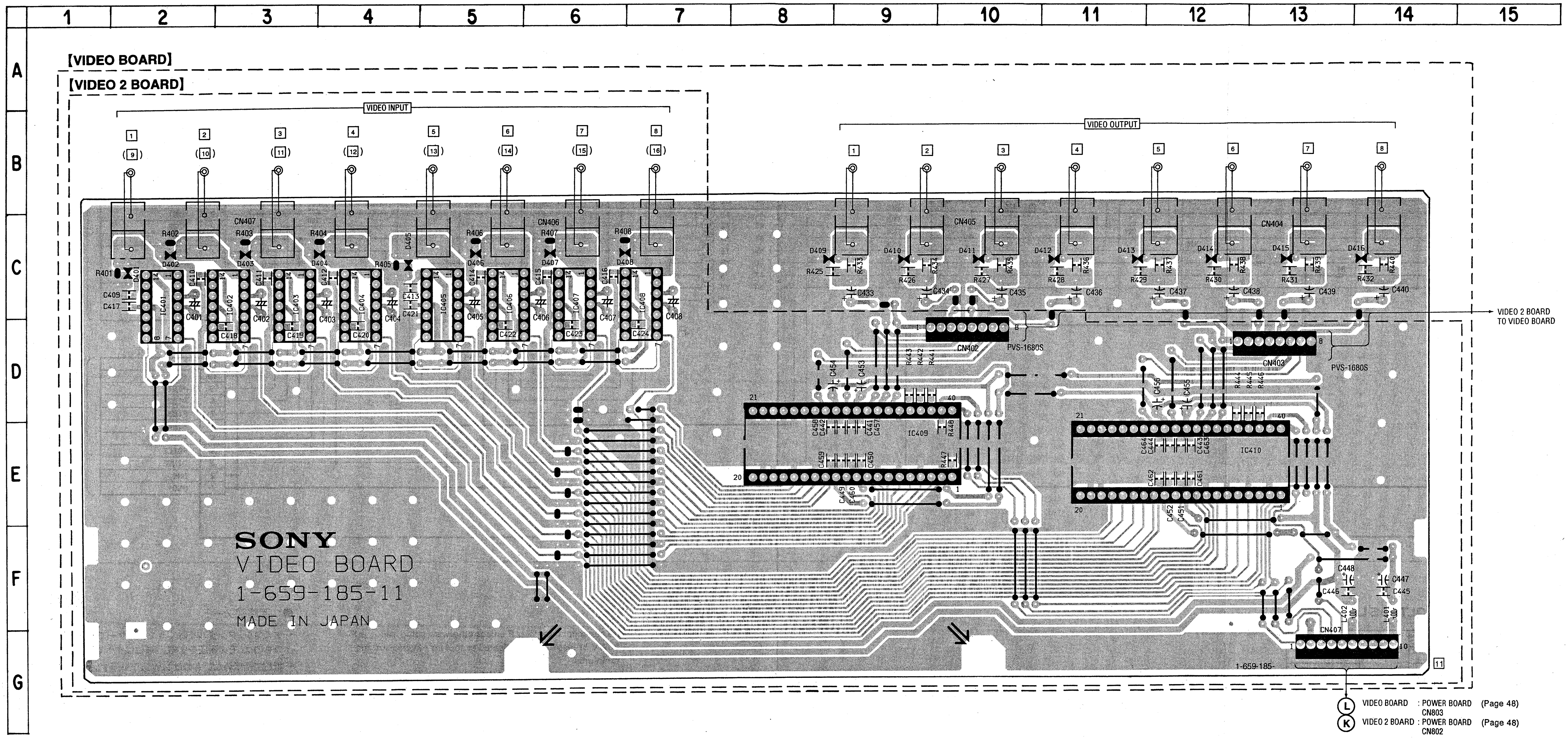


12
13
14
15
16
17
18
19
20
B+
B−
PVS-1680S/1680S (1)
*1
CN402
CN403
1
8
OUT2
VCC
OUT1
GND
OUTO
CE
WR
UPDATA
SCLK
CS
IN4
IN3
IN2
IN1
IN0
ΦIN
R441 47k
R442 47k
R443 47k
R444 47k
R445 47k
R446 47k
R447 22k
R448 22k
C433 1000 6.3V
C434 1000 6.3V
C435 1000 6.3V
C436 1000 6.3V
C437 1000 6.3V
C438 1000 6.3V
C439 1000 6.3V
C440 1000 6.3V
R433 75
R434 75
R435 75
R436 75
R437 75
R438 75
R439 75
R440 75
R425 10k
R426 10k
R427 10k
R428 10k
R429 10k
R430 10k
R431 10k
R432 10k
D409 RB9.1EW
D410 RB9.1EW
D411 RB9.1EW
D412 RB9.1EW
D413 RB9.1EW
D414 RB9.1EW
D415 RB9.1EW
D416 RB9.1EW
(CHASSIS)
CN406-1 1
CN406-2 2
CN406-3 3
CN406-4 4
CN407-1 5
CN407-2 6
CN407-3 7
CN407-4 8
VIDEO OUTPUT
CN401
ΦATA 1
ΦGNΦ 2
CLK 3
CS1 4
CS2 5
+5V 6
GNΦ 7
GNΦ 8
GNΦ 9
-5V 10
C447 220 16V
C448 220 16V
C445 0.1
C446 0.1
L401 33μH
L402 33μH
L VIΦEO BOARΦ:TO CN803 (POWER BOARΦ) (Page 53)
K VIΦEO 2 BOARΦ:TO CN802 (POWER BOARΦ) (Page 53)

VIDEO/VIDEO 2 BOARD IC VOLTAGE LIST

	Pin	Volt		Pin	Volt
IC401	①	0		㊲	4.8
|	②	0		㊳	4.8
IC408	③	− 0.1		㊴	4.9
	④	0.8		㊵	5.1
	⑤	3.6			
	⑥	0			
	⑦	0			
	⑧	0			
	⑨	GND			
	⑩	0			
	⑪	− 4.7			
	⑫	− 0.2			
	⑬	0			
	⑭	4.8			
IC409	①	4.9			
|	②	GND			
IC410	③	0			
	④	GND			
	⑤	0			
	⑥	GND			
	⑦	0			
	⑧	GND			
	⑨	0			
	⑩	4.8			
	⑪	0			
	⑫	− 4.7			
	⑬	0			
	⑭	GND			
	⑮	0			
	⑯	GND			
	⑰	0			
	⑱	GND			
	⑲	GND			
	⑳	0.2			
	㉑	GND			
	㉒	GND			
	㉓	GND			
	㉔	GND			
	㉕	GND			
	㉖	GND			
	㉗	GND			
	㉘	0			
	㉙	− 4.7			
	㉚	0			
	㉛	4.8			
	㉜	0			
	㉝	GND			
	㉞	0			
	㉟	GND			
	㊱	4.8			

3-15. PRINTED WIRING BOARDS – VIDEO/VIDEO 2 SECTION – (VIDEO 2 BOARD : PVS-1680S/1680S/1 only)


1
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5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
[VIDEO BOARD]
[VIDEO 2 BOARD]
VIDEO INPUT
VIDEO OUTPUT
CN407
CN406
CN405
CN404
CN402
CN403
CN407
PVS-1680S
PVS-1680S
IC401
IC402
IC403
IC404
IC405
IC406
IC407
IC408
IC409
IC410
SONY
VIDEO BOARD
1-659-185-11
MADE IN JAPAN
1-659-185-
VIDEO 2 BOARD
TO VIDEO BOARD
L
VIDEO BOARD : POWER BOARD CN803 (Page 48)
K
VIDEO 2 BOARD : POWER BOARD CN802 (Page 48)

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D401	C-2	D411	C-10	IC403	C-3
D402	C-2	D412	C-11	IC404	C-4
D403	C-3	D413	C-11	IC405	C-5
D404	C-4	D414	C-12	IC406	C-5
D405	C-4	D415	C-13	IC407	C-6
D406	C-5	D416	C-14	IC408	C-7
D407	C-6			IC409	E-9
D408	C-6			IC410	E-12
D409	C-8	IC401	C-2		
D410	C-9	IC402	C-3		

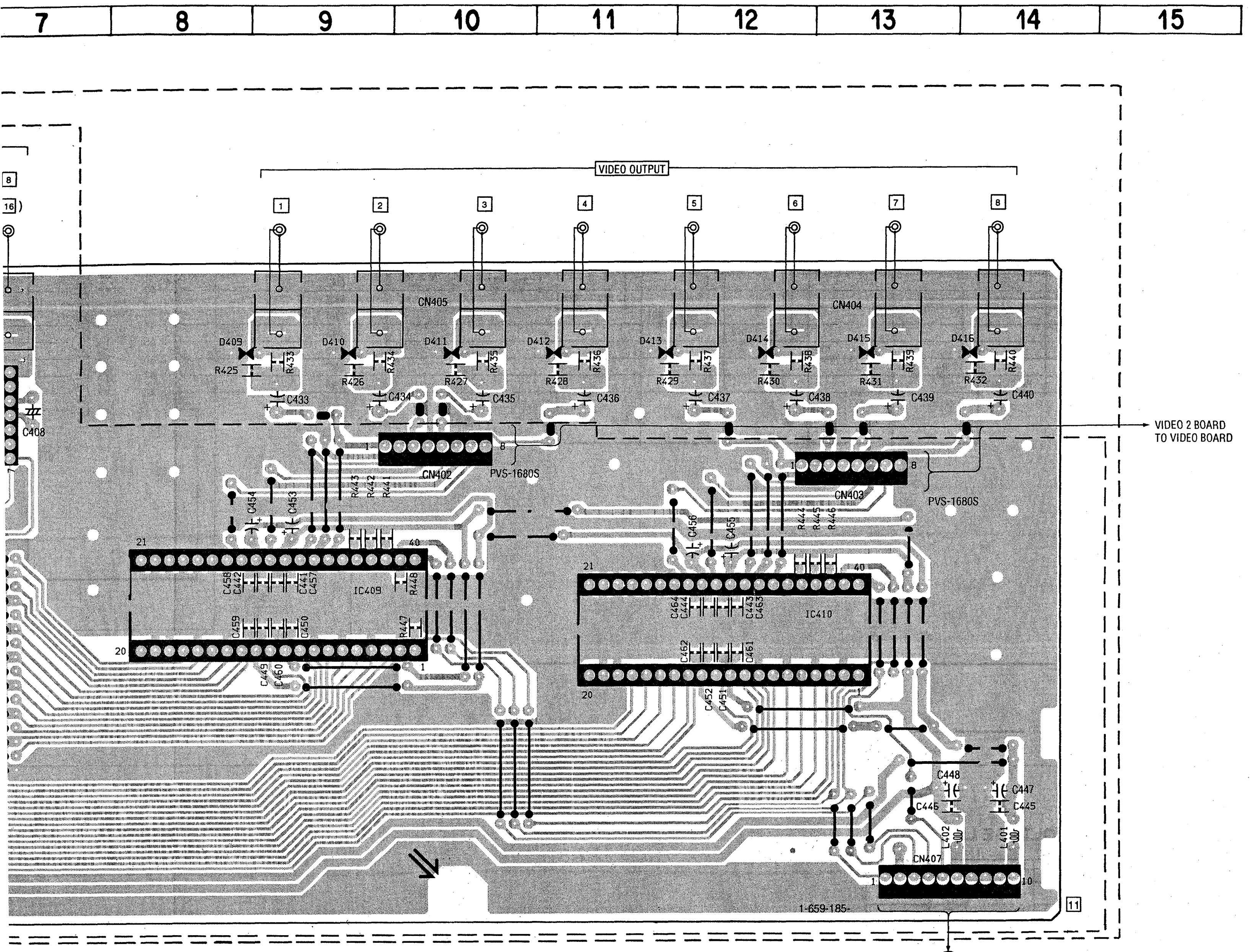
Note:

- ○— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.

● プリント図ノート

- ○— : 部品面側取付のリード線。
- ▨ : 見ている面側のパターン。

only)


7
8
9
10
11
12
13
14
15
VIDEO OUTPUT
1
2
3
4
5
6
7
8
CN405
CN404
D409
D410
D411
D412
D413
D414
D415
D416
R425
R426
R427
R428
R429
R430
R431
R432
R433
R434
R435
R436
R437
R438
R439
R440
C433
C434
C435
C436
C437
C438
C439
C440
C408
CN402
PVS-1680S
CN403
PVS-1680S
R443
R442
R441
R444
R445
R446
C454
C453
C456
C455
IC409
IC410
R448
R447
C449
C460
C459
C450
C452
C451
C461
C462
C457
C448
C446
C447
C445
L402
L401
CN407
1-659-185-
11
VIDEO 2 BOARD
TO VIDEO BOARD

Ⓛ VIDEO BOARD : POWER BOARD CN803 (Page 48)

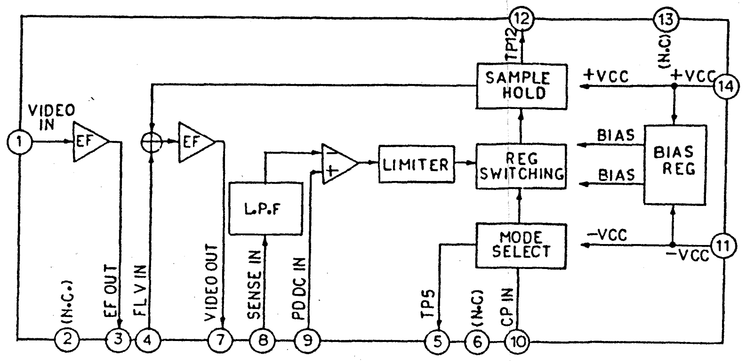
Ⓚ VIDEO 2 BOARD : POWER BOARD CN802 (Page 48)

ent side.

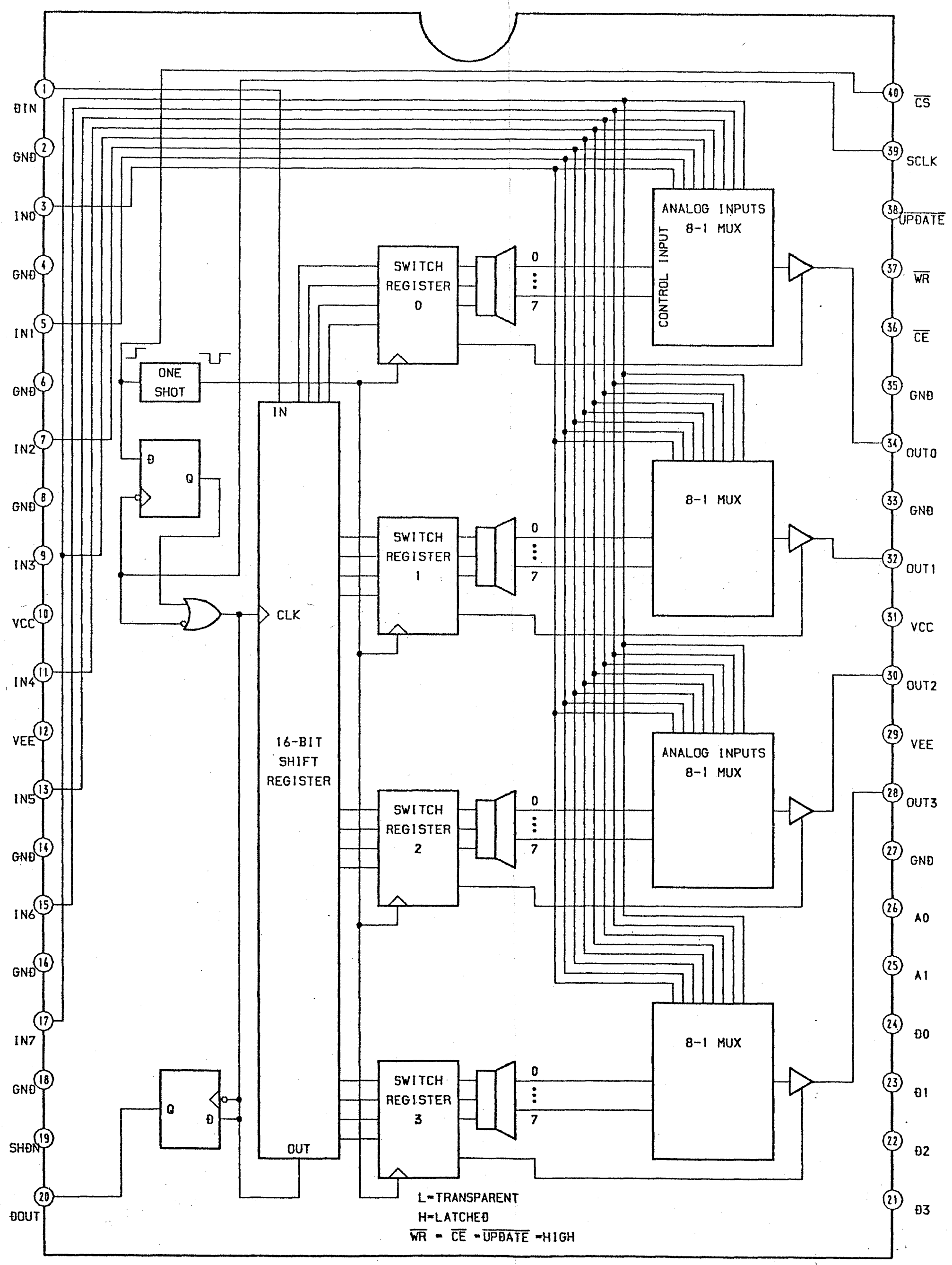
en.

• IC BLOCK DIAGRAMS (VIDEO/VIDEO 2 SECTION)

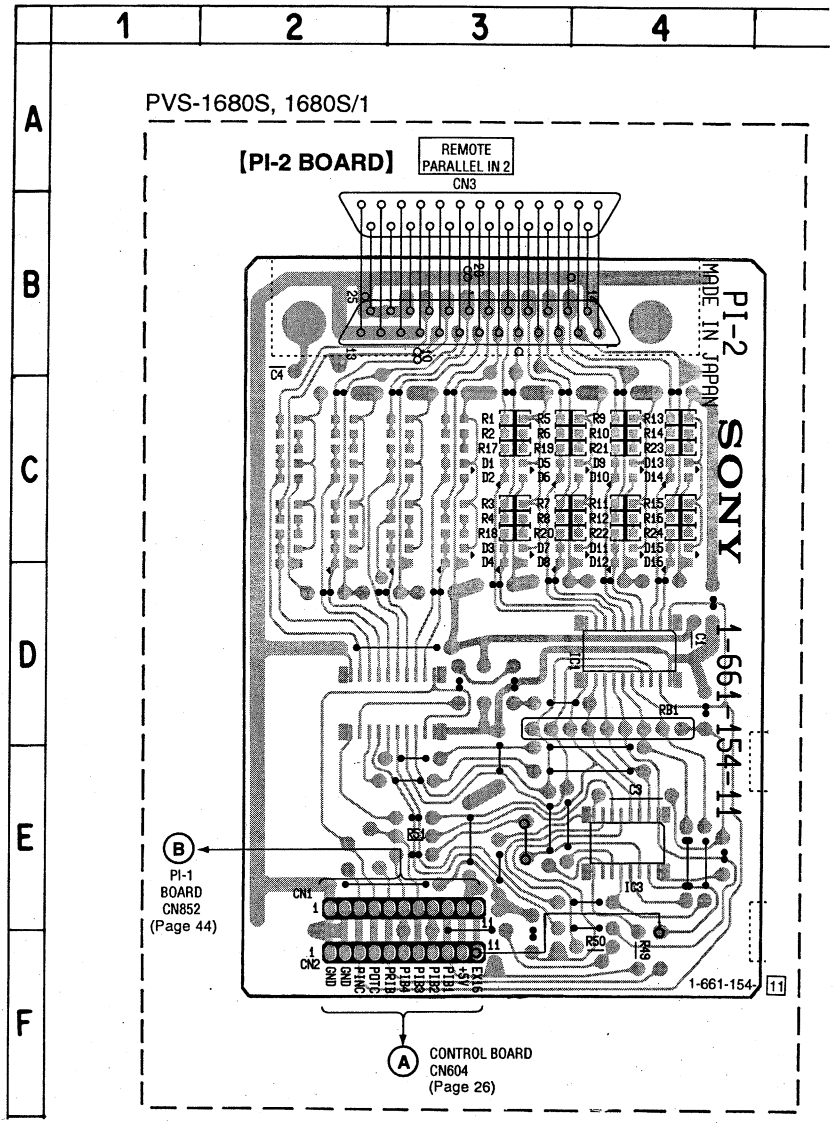
IC401 – 408 CXA1432P


VIDEO IN
EF
EF
L.P.F
LIMITER
SAMPLE HOLD
REG SWITCHING
MODE SELECT
BIAS REG
BIAS
BIAS
+VCC
+VCC
-VCC
-VCC
TP12
(N.C)
(N.C.)
EF OUT
FL V IN
VIDEO OUT
SENSE IN
PD DC IN
TP5
(N.C)
CP IN
①
②
③
④
⑦
⑧
⑨
⑤
⑥
⑩
⑪
⑫
⑬
⑭

IC409, 410 MAX459CPL


DIN
GND
IN0
GND
IN1
GND
IN2
GND
IN3
VCC
IN4
VEE
IN5
GND
IN6
GND
IN7
GND
SHDN
DOUT
CS
SCLK
UPDATE
WR
CE
GND
OUT0
GND
OUT1
VCC
OUT2
VEE
OUT3
GND
A0
A1
D0
D1
D2
D3
ONE SHOT
D
Q
Q
D
IN
CLK
16-BIT SHIFT REGISTER
OUT
SWITCH REGISTER 0
SWITCH REGISTER 1
SWITCH REGISTER 2
SWITCH REGISTER 3
ANALOG INPUTS 8-1 MUX
CONTROL INPUT
8-1 MUX
ANALOG INPUTS 8-1 MUX
8-1 MUX
0
7
L=TRANSPARENT
H=LATCHED
WR = CE = UPDATE =HIGH

3-16. PRINTED WIRING BOARDS – PI-2 SECTION – (PVS-1680S/1680S/1 only)


PVS-1680S, 1680S/1
[PI-2 BOARD]
REMOTE PARALLEL IN 2
CN3
PI-2
MADE IN JAPAN
SONY
1-661-154-11
CN1
CN2
IC1
IC3
Ⓑ
PI-1 BOARD CN852 (Page 44)
Ⓐ
CONTROL BOARD CN604 (Page 26)

- **SEMICONDUCTOR LOCATION**

Ref. No.	Location
D1	C - 3
D2	C - 3
D3	C - 3
D4	C - 3
D5	C - 3
D6	C - 3
D7	C - 3
D8	C - 3
D9	C - 4
D10	C - 4
D11	C - 4
D12	C - 4
D13	C - 4
D14	C - 4
D15	C - 4
D16	C - 4
IC1	D - 4
IC3	E - 4

Note:

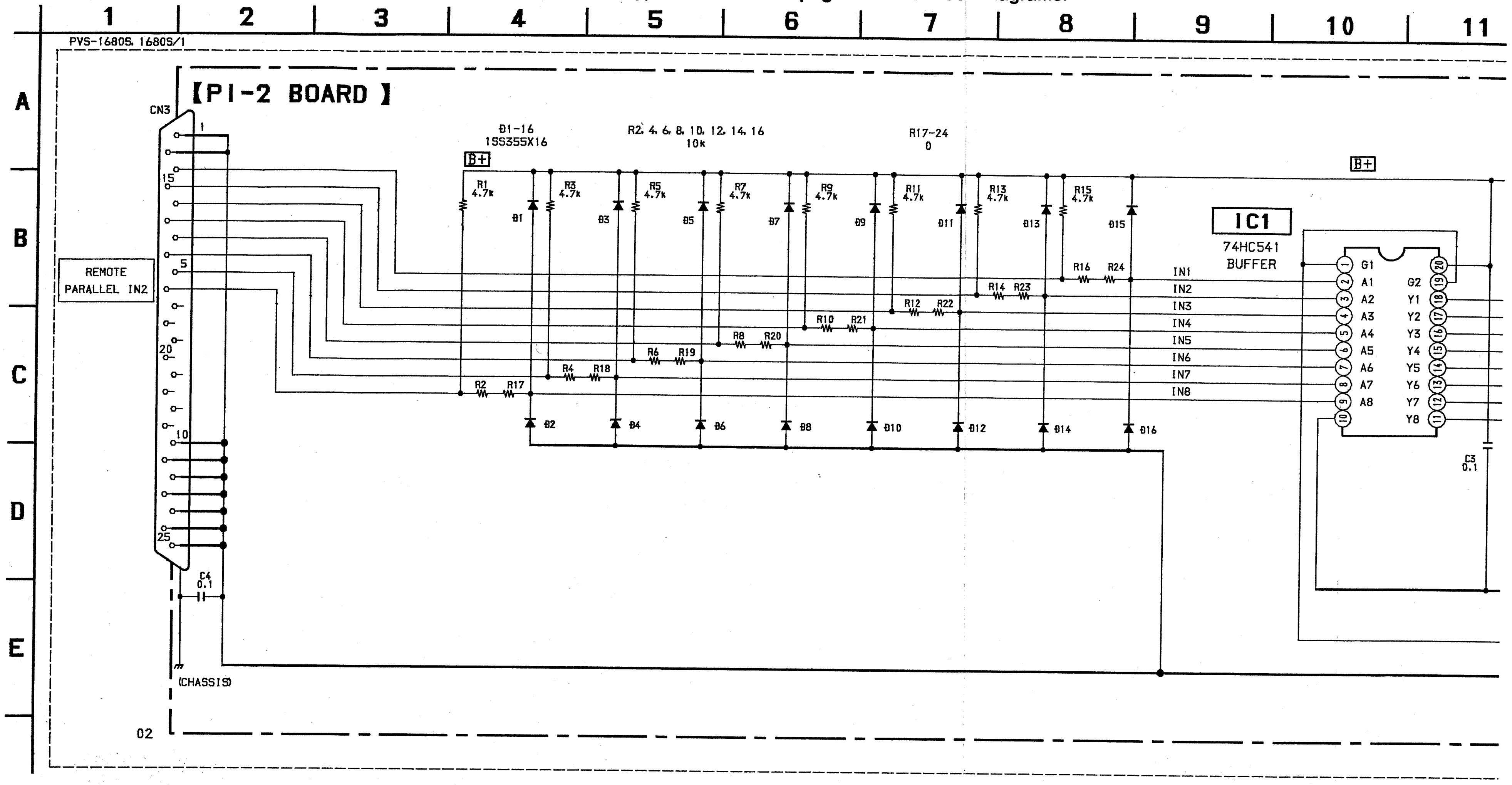
- ○— : parts extracted from the component side.
- ░ : Pattern on the side which is seen.

● プリント図ノート

- ○ ：部品面側取付のリード線。
- ░ ：見ている面側のパターン。

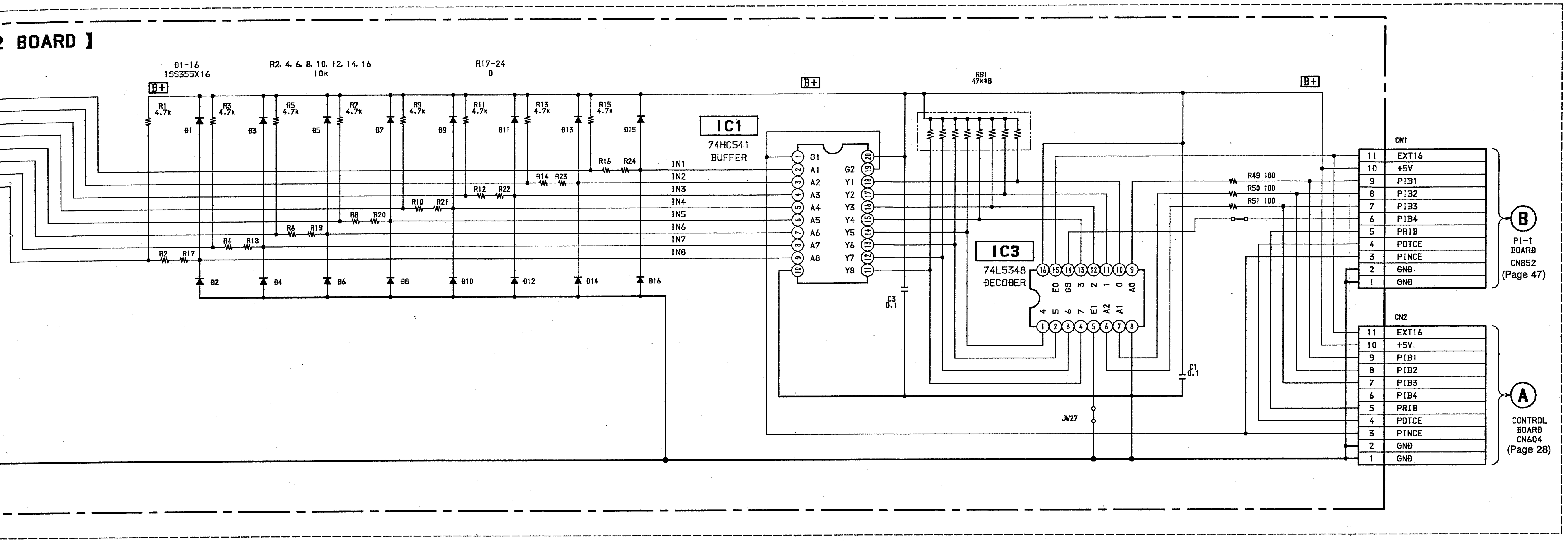
3-17. SCHEMATIC DIAGRAM – PI-2 SECTION – (PVS-1680S/1680S/1 only)

● Refer to page 42 for IC Block Diagrams.


PVS-1680S, 1680S/1
[PI-2 BOARD]
CN3
REMOTE PARALLEL IN2
D1-16 1SS355X16
R2, 4, 6, 8, 10, 12, 14, 16 10k
R17-24 0
B+
IC1
74HC541 BUFFER
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
G1
G2
C3 0.1
C4 0.1
(CHASSIS)
02

PI-2 BOARD IC VOLTAGE LIST

	Pin	Volt		Pin	Volt
IC851 | IC852	①	5		⑲	5
	②	5.1		⑳	5.1
	③	5.1	IC853	①	5.1
	④	5.1		②	5.1
	⑤	5.1		③	5.1
	⑥	5.1		④	5.1
	⑦	5.1		⑤	GND
	⑧	5.1		⑥	5.1
	⑨	5.1		⑦	5.1
	⑩	GND		⑧	GND
	⑪	5.1		⑨	5.1
	⑫	5.1		⑩	5.1
	⑬	5.1		⑪	5.1
	⑭	5.1		⑫	5.1
	⑮	5.1		⑬	5.1
	⑯	5.1		⑭	4.7
	⑰	5.1		⑮	0.1
	⑱	5.1		⑯	5.1


BOARD 】
D1-16
1SS355X16
R2, 4, 6, 8, 10, 12, 14, 16
10k
R17-24
0
B+
R1 4.7k
R3 4.7k
R5 4.7k
R7 4.7k
R9 4.7k
R11 4.7k
R13 4.7k
R15 4.7k
D1
D3
D5
D7
D9
D11
D13
D15
R16 R24
R14 R23
R12 R22
R10 R21
R8 R20
R6 R19
R4 R18
R2 R17
D2
D4
D6
D8
D10
D12
D14
D16
IN1
IN2
IN3
IN4
IN5
IN6
IN7
IN8
IC1
74HC541
BUFFER
G1
A1
A2
A3
A4
A5
A6
A7
A8
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
C3
0.1
RB1
47k*8
IC3
74LS348
DECODER
EO
GS
3
2
1
0
A0
4
5
6
7
E1
A2
A1
C1
0.1
JW27
R49 100
R50 100
R51 100
CN1
11 EXT16
10 +5V
9 PIB1
8 PIB2
7 PIB3
6 PIB4
5 PRIB
4 POTCE
3 PINCE
2 GND
1 GND
B
PI-1
BOARD
CN852
(Page 47)
CN2
11 EXT16
10 +5V
9 PIB1
8 PIB2
7 PIB3
6 PIB4
5 PRIB
4 POTCE
3 PINCE
2 GND
1 GND
A
CONTROL
BOARD
CN604
(Page 28)

PI-2 BOARD IC VOLTAGE LIST

	Pin	Volt		Pin	Volt
IC851 | IC852	①	5		⑲	5
	②	5.1		⑳	5.1
	③	5.1	IC853	①	5.1
	④	5.1		②	5.1
	⑤	5.1		③	5.1
	⑥	5.1		④	5.1
	⑦	5.1		⑤	GND
	⑧	5.1		⑥	5.1
	⑨	5.1		⑦	5.1
	⑩	GND		⑧	GND
	⑪	5.1		⑨	5.1
	⑫	5.1		⑩	5.1
	⑬	5.1		⑪	5.1
	⑭	5.1		⑫	5.1
	⑮	5.1		⑬	5.1
	⑯	5.1		⑭	4.7
	⑰	5.1		⑮	0.1
	⑱	5.1		⑯	5.1

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- **B+** : B+ Line
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

● 回路図ノート

- ケミコン, タンタルを除くコンデンサーで, 耐圧50V以下のものは, その耐圧を省略。 単位はすべてμF（pはpF)。
- 抵抗で指示のないものは¼W以下を示す。 単位はすべてΩ。
- **B+** ：B＋ライン。
- 電圧は, 対アース間を無信号状態で測定。
- 電圧値は, テスター（入力インピーダンス 10MΩ）で測定した参考値。

SECTION 4
EXPLODED VIEWS

NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

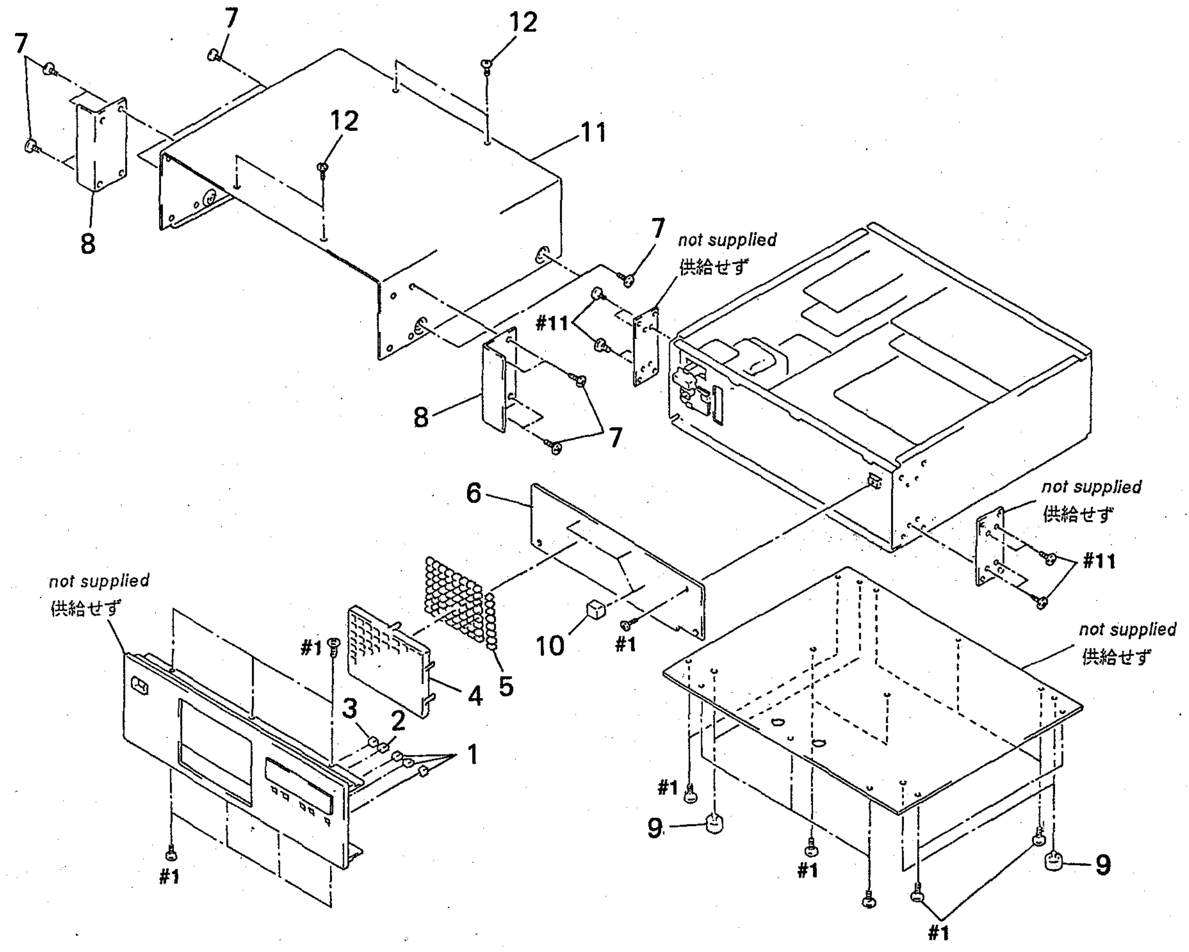
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

【分 解 図】

【使用上の注意】
- ＊印の部品は常時在庫しておりません。
- 分解図中の機構部品で，図面番号のない部品は供給しません。
- -XX, -Xは標準化部品のため，セットに付いている部品と異なる場合があります。
- ねじ一覧表は部品表の最後尾にあります。

⚠印の部品，または⚠印付きの点線で囲まれた部品は，
安全性を維持するために重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

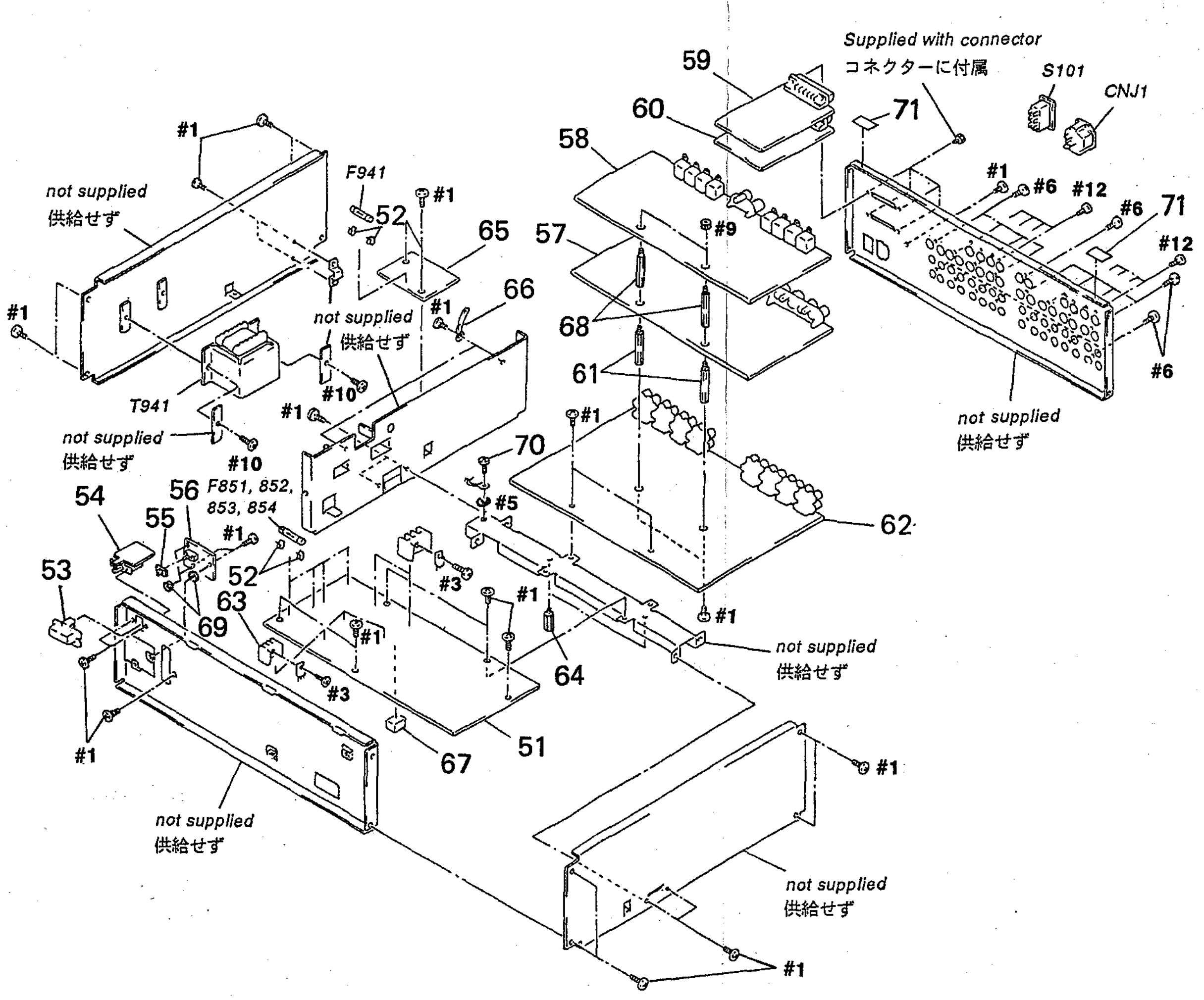
4-1. FRONT PANEL SECTION (PVS-880S)


7
7
12
12
11
8
7
not supplied
供給せず
#11
8
7
6
not supplied
供給せず
#11
not supplied
供給せず
#1
3
2
4
5
10
#1
1
not supplied
供給せず
#1
#1
9
#1
9
#1

Ref. No.	Part No.	Description	Remark
* 1	2-344-351-01	BUTTON	
* 2	2-344-351-11	BUTTON (+)	
* 3	2-344-351-21	BUTTON (–)	
* 4	2-344-350-01	FRAME (880S)	
* 5	2-344-349-01	BUTTON	
* 6	A-4588-784-A	CONTROL BOARD, COMPLETE (880S)	
7	4-889-321-11	SCREW (M4X8) S TITE (880S)	
* 8	2-344-327-01	BRACKET (3U), RACK MOUNT (880S)	

Ref. No.	Part No.	Description	Remark
9	2-337-554-01	LEG (880S)(AEP, UK : Serial No: 500021and later) (J : シリアルナンバー 200201以降)	
9	3-670-155-11	LEG (880S)(AEP, UK : Serial No. 500001-500020) (J : シリアルナンバー 200001-200200)	
10	9-911-842-XX	CUSHION, ST	
* 11	2-344-813-01	COVER, CASE	
12	2-338-688-01	SCREW, TAPPING	

4-2. CHASSIS SECTION (PVS-880S)


59
Supplied with connector
コネクターに付属
S101
CNJ1
60
71
58
#1
#1
#6
#12
#6
71
#12
not supplied
供給せず
F941
52
#1
65
57
#9
#1
not supplied
供給せず
#1
66
68
61
#6
T941
#10
#1
not supplied
供給せず
#10
#1
70
not supplied
供給せず
54
56
F851, 852, 853, 854
#5
55
#1
52
53
63
#3
#1
62
69
#1
#1
#3
64
not supplied
供給せず
#1
67
51
#1
not supplied
供給せず
not supplied
供給せず
#1

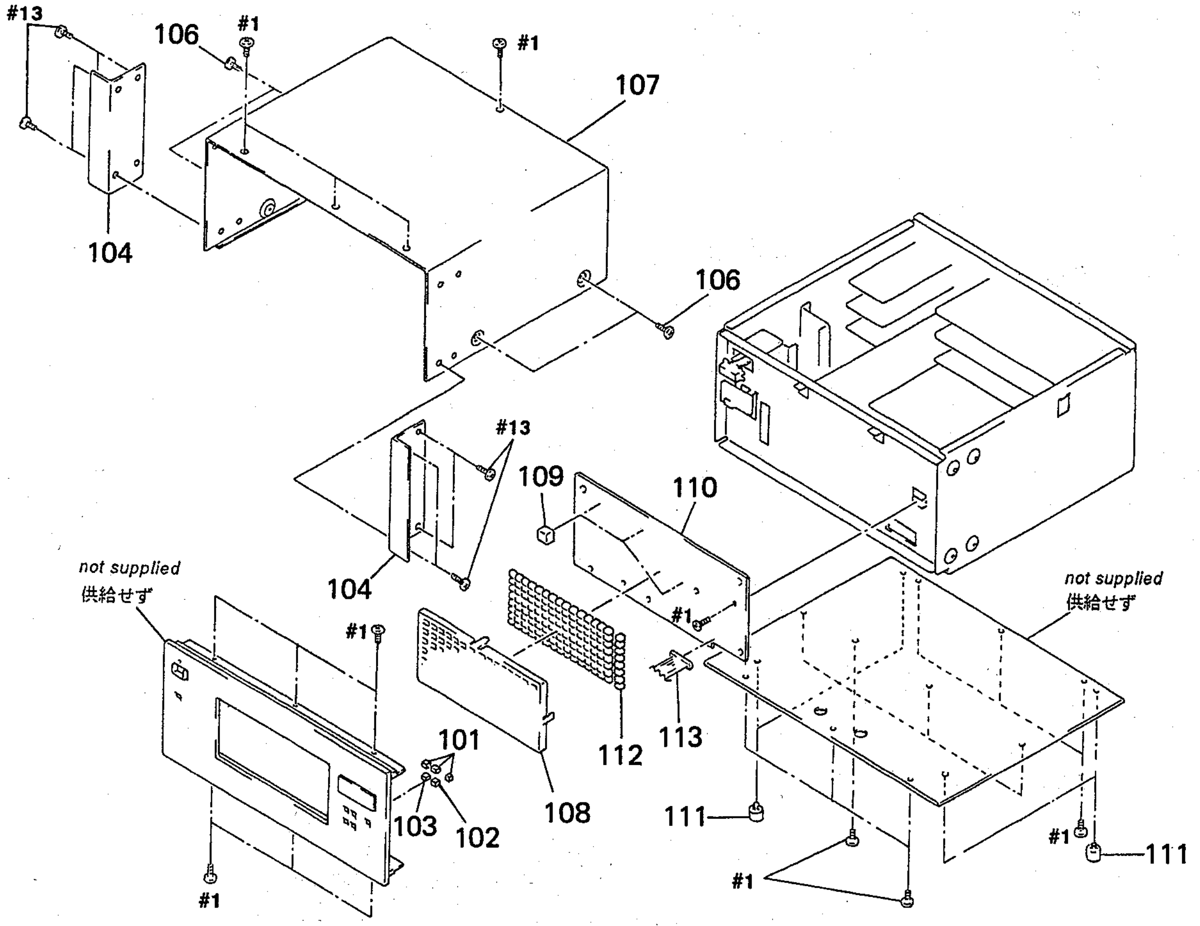
⚠印の部品，または⚠印付きの点線で囲まれた部品は，
安全性を維持するために重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 51	A-4588-790-A	POWER BOARD, COMPLETE (880S)	
52	1-533-293-11	FUSE HOLDER	
53	2-335-924-01	BUTTON	
* 54	A-4588-783-A	POWER SW BOARD, COMPLETE	
55	4-922-518-11	KNOB (TIMER)	
* 56	A-4588-782-A	LOCK SW BOARD, COMPLETE	
* 57	A-4588-788-A	VIDEO BOARD, COMPLETE (EXCEPT 1680S/1)	
* 58	A-4588-789-A	S VIDEO BOARD, COMPLETE	
* 59	A-4588-786-A	PI-1 BOARD, COMPLETE (880S)	
* 60	A-4588-785-A	RS-232C BOARD, COMPLETE	
* 61	2-990-379-91	SUPPORT (880S)	
* 62	A-4588-787-A	AUDIO BOARD, COMPLETE	
* 63	4-363-146-21	HEAT SINK, V.OUT	
* 64	4-870-221-00	SHAFT, FITTING, POWER SWITCH	
* 65	A-4588-791-A	FUSE BOARD, COMPLETE	
66	3-703-397-01	STOPPER, WIRING	
* 67	4-911-608-01	CUSHION, RUBBER	

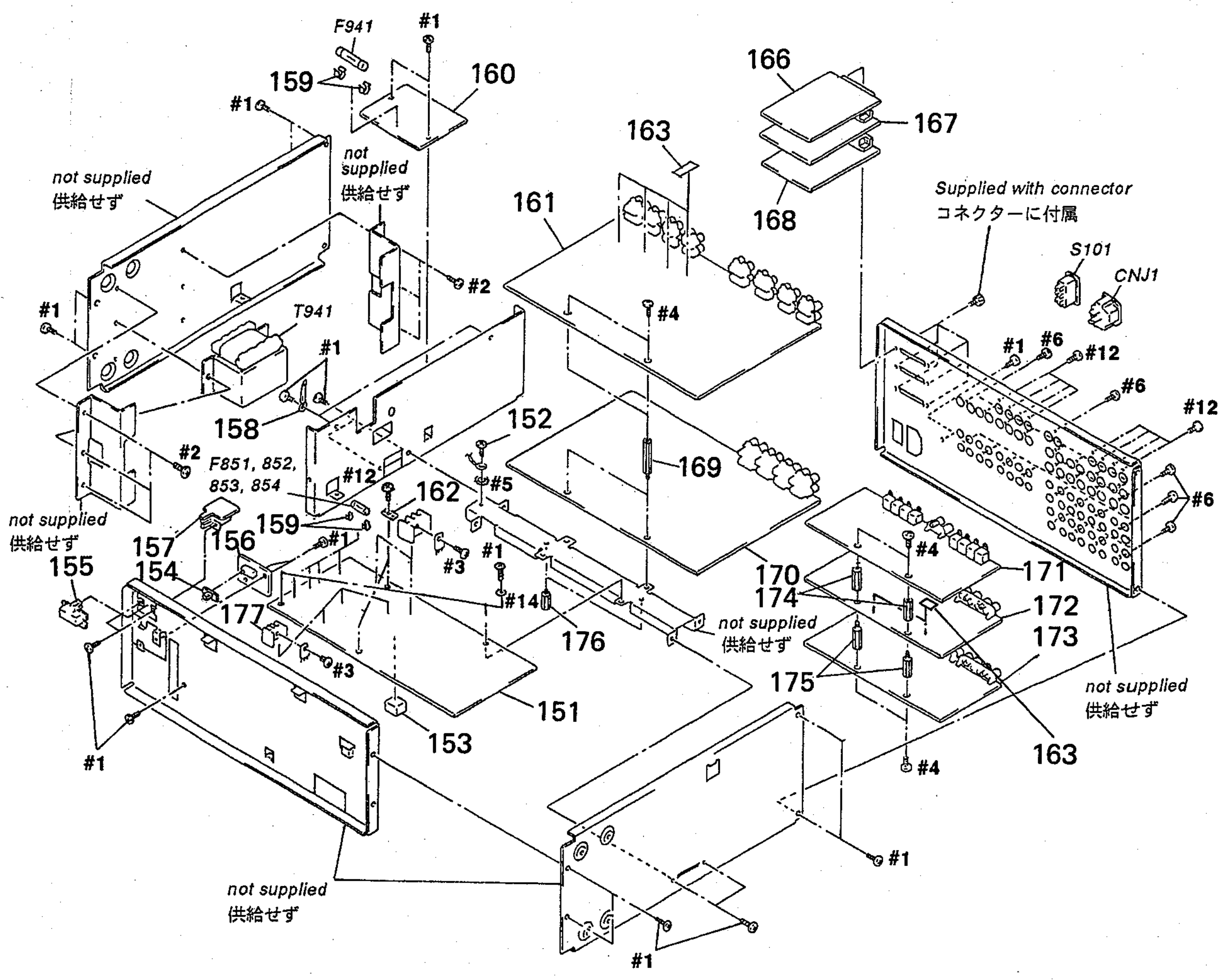
Ref. No.	Part No.	Description	Remark
* 68	2-990-379-81	SUPPORT	
69	3-350-679-01	WASHER, FIBER (880S)	
* 70	4-889-321-11	SCREW (M4) S TITE	
* 71	9-911-835-XX	SPACER	
⚠CNJ1	1-526-954-11	INLET, AC (~AC IN)	
⚠F851	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F851	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F852	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F852	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F853	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F853	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F854	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F854	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F941	1-532-285-00	FUSE, TIME-LAG (T1.25AL 250V) (AEP,UK)	
⚠F941	1-532-743-11	FUSE, GLASS TUBE (2A 125V) (J)	
⚠S101	1-572-066-11	SWITCH, SEESAW (AC POWER)	
⚠T941	1-429-688-11	TRANSFORMER, POWER	

4-3. FRONT PANEL SECTION (PVS-1680S, 1680S/1)


#13
106
#1
#1
107
104
106
#13
109
110
104
not supplied
供給せず
#1
not supplied
供給せず
#1
101
112
113
103
102
108
111
#1
111
#1
#1

Ref. No.	Part No.	Description	Remark
* 101	2-344-351-01	BUTTON	
* 102	2-344-351-11	BUTTON (+)	
* 103	2-344-351-21	BUTTON (–)	
* 104	2-338-287-01	BRACKET, RACK MOUNT(1680S, 1680S/1)	
106	3-704-366-31	SCREW (CASE) (M3X6) (1680S, 1680S/1)	
* 107	2-338-293-01	COVER, CASE (1680S, 1680S/1)	
* 108	2-344-355-01	FRAME (16X8) (1680S, 1680S/1)	
109	9-911-842-XX	CUSHION, ST	
* 110	A-4588-837-A	CONTROL BOARD, COMPLETE (1680S, 1680S/1)	
111	2-338-367-01	FOOT (1680S, 1680S/1)	
* 112	2-344-349-01	BUTTON	
* 113	1-955-960-11	HARNESS, WIRE (34 CORE) (1680S, 1680S/1)	

4-4. CHASSIS SECTION (PVS-1680S, 1680S/1)


F941
#1
159
160
#1
166
167
163
not supplied
供給せず
not supplied
供給せず
161
168
Supplied with connector
コネクターに付属
S101
CNJ1
#2
#4
#1
T941
#1
#1
#6
#12
#6
#12
158
152
#2
F851, 852, 853, 854
#12
#5
169
#6
not supplied
供給せず
162
157
156
159
#1
#4
155
154
#3
#1
170
171
174
177
#14
176
not supplied
供給せず
172
173
#3
175
not supplied
供給せず
151
153
163
#1
#4
#1
not supplied
供給せず
#1

⚠印の部品，または⚠印付きの点線で囲まれた部品は， 安全性を維持するために重要な部品です。 従って交換時は，必ず指定の部品を使用して下さい。	The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 151	A-4588-842-A	POWER BOARD, COMPLETE (1680S, 1680S/1)	
152	4-889-321-11	SCREW (M4) S TITE	
* 153	4-911-608-01	CUSHION, RUBBER	
154	4-922-518-11	KNOB (TIMER)	
155	2-335-924-01	BUTTON	
* 156	A-4588-843-A	LOCK SW BOARD, COMPLETE	
* 157	A-4588-783-A	POWER SW BOARD, COMPLETE	
158	3-703-397-01	STOPPER, WIRING	
159	1-533-293-11	FUSE HOLDER	
* 160	A-4588-791-A	FUSE BOARD, COMPLETE	
* 161	A-4588-787-A	AUDIO BOARD, COMPLETE	
162	2-344-407-02	WASHER	
163	3-831-441-XX	CUSHION (B), CABINET (1680S, 1680S/1)	
* 166	A-4588-838-A	PI-1 BOARD, COMPLETE (1680S, 1680S/1)	
* 167	A-4588-839-A	PI-2 BOARD, COMPLETE (1680S, 1680S/1)	
* 168	A-4588-785-A	RS-232C BOARD, COMPLETE	
* 169	2-990-379-81	SUPPORT	
* 170	A-4588-840-A	AUDIO (2) BOARD, COMPLETE (1680S, 1680S/1)	
* 171	A-4588-789-A	S VIDEO BOARD, COMPLETE	
* 172	A-4588-788-A	VIDEO BOARD, COMPLETE (EXCEPT 1680S/1)	
* 172	A-4588-870-A	VIDEO BOARD, COMPLETE (1680S/1)	
* 173	A-4588-841-A	VIDEO (2) BOARD, COMPLETE (1680S)	
* 173	A-4588-871-A	VIDEO (2) BOARD, COMPLETE (1680S/1)	
* 174	3-659-109-00	SPACER (1680S, 1680S/1)	
175	3-542-802-00	SUPPORT, HEAD BASE (1680S, 1680S/1)	
* 176	4-870-221-00	SHAFT, FITTING, POWER SWITCH	
* 177	4-363-146-21	HEAT SINK, V.OUT	
⚠CNJ1	1-526-954-11	INLET, AC (∿AC IN)	
⚠F851	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F851	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F852	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F852	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F853	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F853	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F854	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F854	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F941	1-532-285-00	FUSE, TIME-LAG (T1.25AL 250V) (AEP,UK)	
⚠F941	1-532-743-11	FUSE, GLASS TUBE (2A 125V) (J)	
⚠S101	1-572-066-11	SWITCH, SEESAW (AC POWER)	
⚠T941	1-429-688-11	TRANSFORMER, POWER	

SECTION 5
ELECTRICAL PARTS LIST

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : µ , for example :
  uA.... : µ A...., uPA.... : µ PA....
  uPB.... : µ PB...., uPC.... : µ PC....
  uPD.... : µ PD....
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

【電気部品表】

【使用上の注意】
- ここに記載されている部品は，補修用部品であるため，回路図及びセットに付いている部品と異なる場合があります。
- -XX, -Xは標準化部品のため, セットに付いている部品と異なる場合があります。
- ＊印の部品は常時在庫しておりません。
- コンデンサの単位でuFはμFを示します。
- 抵抗の単位Ωは省略してあります。
  METAL :金属被膜抵抗
  MATAL OXIDE :酸化金属被膜抵抗
- インダクタの単位で，uHはμHを示します。
- 半導体の名称でuA..., uPB..., uPC..., uPD... 等はそれぞれμA..., μPB..., μPC..., μPD...を示します。

お願い
図面番号で部品を指定するときは基板名, またはブロックを併せて指定して下さい。

⚠印の部品，または⚠印付きの点線で囲まれた部品は，安全性を維持するために重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

Ref. No.	Part No.	Description			Remark
*	A-4588-787-A	AUDIO BOARD, COMPLETE			
		**********************			
		< CAPACITOR >			
C101	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C104	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C105	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C106	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C107	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C108	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C109	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C110	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C113	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C114	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C115	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C116	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C117	1-126-964-11	ELECT	10uF	20%	50V
C118	1-126-964-11	ELECT	10uF	20%	50V
C119	1-126-964-11	ELECT	10uF	20%	50V
C120	1-126-964-11	ELECT	10uF	20%	50V
C121	1-126-964-11	ELECT	10uF	20%	50V
C122	1-126-964-11	ELECT	10uF	20%	50V
C123	1-126-964-11	ELECT	10uF	20%	50V
C124	1-126-964-11	ELECT	10uF	20%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C126	1-126-964-11	ELECT	10uF	20%	50V
C127	1-126-964-11	ELECT	10uF	20%	50V
C128	1-126-964-11	ELECT	10uF	20%	50V
C129	1-126-964-11	ELECT	10uF	20%	50V
C130	1-126-964-11	ELECT	10uF	20%	50V
C131	1-126-964-11	ELECT	10uF	20%	50V
C132	1-126-964-11	ELECT	10uF	20%	50V
C133	1-126-964-11	ELECT	10uF	20%	50V
C134	1-126-964-11	ELECT	10uF	20%	50V
C135	1-126-964-11	ELECT	10uF	20%	50V
C136	1-126-964-11	ELECT	10uF	20%	50V
C137	1-126-964-11	ELECT	10uF	20%	50V
C138	1-126-964-11	ELECT	10uF	20%	50V
C139	1-126-964-11	ELECT	10uF	20%	50V
C140	1-126-964-11	ELECT	10uF	20%	50V
C141	1-126-964-11	ELECT	10uF	20%	50V
C142	1-126-964-11	ELECT	10uF	20%	50V
C143	1-126-964-11	ELECT	10uF	20%	50V
C144	1-126-964-11	ELECT	10uF	20%	50V
C145	1-126-964-11	ELECT	10uF	20%	50V

AUDIO

Ref. No.	Part No.	Description			Remark
C146	1-126-964-11	ELECT	10uF	20%	50V
C147	1-126-964-11	ELECT	10uF	20%	50V
C148	1-126-964-11	ELECT	10uF	20%	50V
C149	1-126-964-11	ELECT	10uF	20%	50V
C150	1-126-964-11	ELECT	10uF	20%	50V
C151	1-126-964-11	ELECT	10uF	20%	50V
C152	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V
C155	1-126-964-11	ELECT	10uF	20%	50V
C156	1-126-964-11	ELECT	10uF	20%	50V
C157	1-126-964-11	ELECT	10uF	20%	50V
C158	1-126-964-11	ELECT	10uF	20%	50V
C159	1-126-964-11	ELECT	10uF	20%	50V
C160	1-126-964-11	ELECT	10uF	20%	50V
C161	1-126-964-11	ELECT	10uF	20%	50V
C162	1-126-964-11	ELECT	10uF	20%	50V
C163	1-126-964-11	ELECT	10uF	20%	50V
C164	1-126-964-11	ELECT	10uF	20%	50V
C165	1-126-964-11	ELECT	10uF	20%	50V
C166	1-126-964-11	ELECT	10uF	20%	50V
C167	1-126-964-11	ELECT	10uF	20%	50V
C168	1-126-964-11	ELECT	10uF	20%	50V
C169	1-126-964-11	ELECT	10uF	20%	50V
C170	1-126-964-11	ELECT	10uF	20%	50V
C171	1-126-964-11	ELECT	10uF	20%	50V
C172	1-126-964-11	ELECT	10uF	20%	50V
C173	1-126-964-11	ELECT	10uF	20%	50V
C174	1-126-964-11	ELECT	10uF	20%	50V
C175	1-126-964-11	ELECT	10uF	20%	50V
C176	1-126-964-11	ELECT	10uF	20%	50V
C177	1-126-964-11	ELECT	10uF	20%	50V
C178	1-126-964-11	ELECT	10uF	20%	50V
C179	1-126-964-11	ELECT	10uF	20%	50V
C180	1-126-964-11	ELECT	10uF	20%	50V
C181	1-126-947-11	ELECT	47uF	20%	35V
C182	1-126-947-11	ELECT	47uF	20%	35V
C183	1-126-947-11	ELECT	47uF	20%	35V
C184	1-126-947-11	ELECT	47uF	20%	35V
C185	1-126-947-11	ELECT	47uF	20%	35V
C186	1-126-947-11	ELECT	47uF	20%	35V
C187	1-126-947-11	ELECT	47uF	20%	35V
C188	1-126-947-11	ELECT	47uF	20%	35V
C189	1-126-947-11	ELECT	47uF	20%	35V
C190	1-126-947-11	ELECT	47uF	20%	35V
C191	1-126-947-11	ELECT	47uF	20%	35V
C192	1-126-947-11	ELECT	47uF	20%	35V
C193	1-126-947-11	ELECT	47uF	20%	35V
C194	1-126-947-11	ELECT	47uF	20%	35V
C195	1-126-947-11	ELECT	47uF	20%	35V
C196	1-126-947-11	ELECT	47uF	20%	35V
C197	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C198	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C199	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C200	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C201	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C202	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C205	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C206	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C207	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C208	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C209	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C210	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C211	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C212	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C213	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C214	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C215	1-126-934-11	ELECT	220uF	20%	16V
C216	1-126-934-11	ELECT	220uF	20%	16V
C217	1-126-964-11	ELECT	10uF	20%	50V
C218	1-126-964-11	ELECT	10uF	20%	50V
C219	1-126-964-11	ELECT	10uF	20%	50V
C220	1-126-964-11	ELECT	10uF	20%	50V
C223	1-126-964-11	ELECT	10uF	20%	50V
C224	1-126-964-11	ELECT	10uF	20%	50V
C225	1-126-964-11	ELECT	10uF	20%	50V
C226	1-126-964-11	ELECT	10uF	20%	50V
C227	1-126-964-11	ELECT	10uF	20%	50V
C228	1-126-964-11	ELECT	10uF	20%	50V
C229	1-126-964-11	ELECT	10uF	20%	50V
C230	1-126-964-11	ELECT	10uF	20%	50V
C231	1-126-964-11	ELECT	10uF	20%	50V
C232	1-126-964-11	ELECT	10uF	20%	50V
C233	1-126-964-11	ELECT	10uF	20%	50V
C234	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN101	1-695-188-31	JACK, PIN 4P (INPUT 1,2)			
CN102	1-695-188-31	JACK, PIN 4P (INPUT 3,4)			
CN103	1-695-188-31	JACK, PIN 4P (INPUT 5,6)			
CN104	1-695-188-31	JACK, PIN 4P (INPUT 7,8)			
CN105	1-695-188-31	JACK, PIN 4P (OUTPUT 1,2)			
CN106	1-695-188-31	JACK, PIN 4P (OUTPUT 3,4)			
CN107	1-695-188-31	JACK, PIN 4P (OUTPUT 5,6)			
CN108	1-695-188-31	JACK, PIN 4P (OUTPUT 7,8)			
		< DIODE >			
D101	8-719-108-12	DIODE RD9.1E-W			
D102	8-719-108-12	DIODE RD9.1E-W			
D103	8-719-108-12	DIODE RD9.1E-W			
D104	8-719-108-12	DIODE RD9.1E-W			
D105	8-719-108-12	DIODE RD9.1E-W			

Ref. No.	Part No.	Description	Remark
D106	8-719-108-12	DIODE RD9.1E-W	
D107	8-719-108-12	DIODE RD9.1E-W	
D108	8-719-108-12	DIODE RD9.1E-W	
D109	8-719-108-12	DIODE RD9.1E-W	
D110	8-719-108-12	DIODE RD9.1E-W	
D111	8-719-108-12	DIODE RD9.1E-W	
D112	8-719-108-12	DIODE RD9.1E-W	
D113	8-719-108-12	DIODE RD9.1E-W	
D114	8-719-108-12	DIODE RD9.1E-W	
D115	8-719-108-12	DIODE RD9.1E-W	
D116	8-719-108-12	DIODE RD9.1E-W	
D117	8-719-108-12	DIODE RD9.1E-W	
D118	8-719-108-12	DIODE RD9.1E-W	
D119	8-719-108-12	DIODE RD9.1E-W	
D120	8-719-108-12	DIODE RD9.1E-W	
D121	8-719-108-12	DIODE RD9.1E-W	
D122	8-719-108-12	DIODE RD9.1E-W	
D123	8-719-108-12	DIODE RD9.1E-W	
D124	8-719-108-12	DIODE RD9.1E-W	
D125	8-719-108-12	DIODE RD9.1E-W	
D126	8-719-108-12	DIODE RD9.1E-W	
D127	8-719-108-12	DIODE RD9.1E-W	
D128	8-719-108-12	DIODE RD9.1E-W	
D129	8-719-108-12	DIODE RD9.1E-W	
D130	8-719-108-12	DIODE RD9.1E-W	
D131	8-719-108-12	DIODE RD9.1E-W	
D132	8-719-108-12	DIODE RD9.1E-W	
		< IC >	
IC101	8-759-711-85	IC NJM4580E-D	
IC102	8-759-711-85	IC NJM4580E-D	
IC103	8-759-711-85	IC NJM4580E-D	
IC104	8-759-711-85	IC NJM4580E-D	
IC105	8-759-711-85	IC NJM4580E-D	
IC106	8-759-711-85	IC NJM4580E-D	
IC107	8-759-711-85	IC NJM4580E-D	
IC108	8-759-711-85	IC NJM4580E-D	
IC109	8-759-711-85	IC NJM4580E-D	
IC110	8-759-711-85	IC NJM4580E-D	
IC111	8-759-711-85	IC NJM4580E-D	
IC112	8-759-711-85	IC NJM4580E-D	
IC113	8-759-711-85	IC NJM4580E-D	
IC114	8-759-711-85	IC NJM4580E-D	
IC115	8-759-711-85	IC NJM4580E-D	
IC116	8-759-711-85	IC NJM4580E-D	
IC117	8-759-805-14	IC LC7822	
IC118	8-759-805-14	IC LC7822	
IC119	8-759-805-14	IC LC7822	
IC120	8-759-805-14	IC LC7822	
IC121	8-759-805-14	IC LC7822	
IC122	8-759-805-14	IC LC7822	
IC123	8-759-805-14	IC LC7822	
IC124	8-759-805-14	IC LC7822	
		< TRANSISTOR >	
Q101	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q102	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q103	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q104	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q105	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q106	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q107	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q108	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q109	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q110	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q111	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q112	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q113	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q114	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q115	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q116	8-729-141-26	TRANSISTOR 2SC3622A-LK	
		< RESISTOR >	
R2	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R4	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R6	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R8	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R10	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R12	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R14	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R16	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R101	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R102	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R103	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R104	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R105	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R106	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R107	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R108	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R109	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R110	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R111	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R112	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R113	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R114	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R115	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R116	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R117	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R118	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R119	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R120	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R121	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R122	1-216-089-00	METAL GLAZE 47K 5% 1/10W	

AUDIO

Ref. No.	Part No.	Description			Remark
R123	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R124	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R125	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R126	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R127	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R128	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R129	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R130	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R131	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R132	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R133	1-216-017-00	METAL GLAZE	47	5%	1/10W
R134	1-216-017-00	METAL GLAZE	47	5%	1/10W
R135	1-216-017-00	METAL GLAZE	47	5%	1/10W
R136	1-216-017-00	METAL GLAZE	47	5%	1/10W
R137	1-216-017-00	METAL GLAZE	47	5%	1/10W
R138	1-216-017-00	METAL GLAZE	47	5%	1/10W
R139	1-216-017-00	METAL GLAZE	47	5%	1/10W
R140	1-216-017-00	METAL GLAZE	47	5%	1/10W
R141	1-216-017-00	METAL GLAZE	47	5%	1/10W
R142	1-216-017-00	METAL GLAZE	47	5%	1/10W
R143	1-216-017-00	METAL GLAZE	47	5%	1/10W
R144	1-216-017-00	METAL GLAZE	47	5%	1/10W
R145	1-216-017-00	METAL GLAZE	47	5%	1/10W
R146	1-216-017-00	METAL GLAZE	47	5%	1/10W
R147	1-216-017-00	METAL GLAZE	47	5%	1/10W
R148	1-216-017-00	METAL GLAZE	47	5%	1/10W
R181	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R182	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R183	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R184	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R185	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R186	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R187	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R188	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R189	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R190	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R191	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R192	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R193	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R194	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R195	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R196	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R229	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R230	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R231	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R232	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R233	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R234	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R235	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R236	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R237	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R238	1-216-097-00	METAL GLAZE	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R239	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R240	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R241	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R242	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R243	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R244	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R245	1-216-073-00	METAL CHIP	10K	5%	1/10W
R246	1-216-073-00	METAL CHIP	10K	5%	1/10W
R247	1-216-073-00	METAL CHIP	10K	5%	1/10W
R248	1-216-073-00	METAL CHIP	10K	5%	1/10W
R249	1-216-073-00	METAL CHIP	10K	5%	1/10W
R250	1-216-073-00	METAL CHIP	10K	5%	1/10W
R251	1-216-073-00	METAL CHIP	10K	5%	1/10W
R252	1-216-073-00	METAL CHIP	10K	5%	1/10W
R253	1-216-073-00	METAL CHIP	10K	5%	1/10W
R254	1-216-073-00	METAL CHIP	10K	5%	1/10W
R255	1-216-073-00	METAL CHIP	10K	5%	1/10W
R256	1-216-073-00	METAL CHIP	10K	5%	1/10W
R257	1-216-073-00	METAL CHIP	10K	5%	1/10W
R258	1-216-073-00	METAL CHIP	10K	5%	1/10W
R259	1-216-073-00	METAL CHIP	10K	5%	1/10W
R260	1-216-073-00	METAL CHIP	10K	5%	1/10W
R261	1-216-041-00	METAL CHIP	470	5%	1/10W
R262	1-216-041-00	METAL CHIP	470	5%	1/10W
R263	1-216-041-00	METAL CHIP	470	5%	1/10W
R264	1-216-041-00	METAL CHIP	470	5%	1/10W
R265	1-216-041-00	METAL CHIP	470	5%	1/10W
R266	1-216-041-00	METAL CHIP	470	5%	1/10W
R267	1-216-041-00	METAL CHIP	470	5%	1/10W
R268	1-216-041-00	METAL CHIP	470	5%	1/10W
R269	1-216-041-00	METAL CHIP	470	5%	1/10W
R270	1-216-041-00	METAL CHIP	470	5%	1/10W
R271	1-216-041-00	METAL CHIP	470	5%	1/10W
R272	1-216-041-00	METAL CHIP	470	5%	1/10W
R273	1-216-041-00	METAL CHIP	470	5%	1/10W
R274	1-216-041-00	METAL CHIP	470	5%	1/10W
R275	1-216-041-00	METAL CHIP	470	5%	1/10W
R276	1-216-041-00	METAL CHIP	470	5%	1/10W
R277	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R278	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R279	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R280	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R281	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R282	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R283	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R284	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R285	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R286	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R287	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R288	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R289	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R290	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R291	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R292	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R293	1-216-081-00	METAL CHIP	22K	5%	1/10W
R294	1-216-081-00	METAL CHIP	22K	5%	1/10W
R295	1-249-385-11	CARBON	2.2	5%	1/6W
R296	1-249-385-11	CARBON	2.2	5%	1/6W

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* A-4588-840-A AUDIO 2 BOARD, COMPLETE (1680S, 1680S/1)
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< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C101	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C104	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C105	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C106	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C107	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C108	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C109	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C110	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C113	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C114	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C115	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C116	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C117	1-126-964-11	ELECT	10uF	20%	50V
C118	1-126-964-11	ELECT	10uF	20%	50V
C119	1-126-964-11	ELECT	10uF	20%	50V
C120	1-126-964-11	ELECT	10uF	20%	50V
C121	1-126-964-11	ELECT	10uF	20%	50V
C122	1-126-964-11	ELECT	10uF	20%	50V
C123	1-126-964-11	ELECT	10uF	20%	50V
C124	1-126-964-11	ELECT	10uF	20%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C126	1-126-964-11	ELECT	10uF	20%	50V
C127	1-126-964-11	ELECT	10uF	20%	50V
C128	1-126-964-11	ELECT	10uF	20%	50V
C129	1-126-964-11	ELECT	10uF	20%	50V
C130	1-126-964-11	ELECT	10uF	20%	50V
C131	1-126-964-11	ELECT	10uF	20%	50V
C132	1-126-964-11	ELECT	10uF	20%	50V
C133	1-126-964-11	ELECT	10uF	20%	50V
C134	1-126-964-11	ELECT	10uF	20%	50V
C135	1-126-964-11	ELECT	10uF	20%	50V
C136	1-126-964-11	ELECT	10uF	20%	50V
C137	1-126-964-11	ELECT	10uF	20%	50V
C138	1-126-964-11	ELECT	10uF	20%	50V
C139	1-126-964-11	ELECT	10uF	20%	50V
C140	1-126-964-11	ELECT	10uF	20%	50V
C141	1-126-964-11	ELECT	10uF	20%	50V
C142	1-126-964-11	ELECT	10uF	20%	50V
C143	1-126-964-11	ELECT	10uF	20%	50V
C144	1-126-964-11	ELECT	10uF	20%	50V
C145	1-126-964-11	ELECT	10uF	20%	50V
C146	1-126-964-11	ELECT	10uF	20%	50V
C147	1-126-964-11	ELECT	10uF	20%	50V
C148	1-126-964-11	ELECT	10uF	20%	50V
C149	1-126-964-11	ELECT	10uF	20%	50V
C150	1-126-964-11	ELECT	10uF	20%	50V
C151	1-126-964-11	ELECT	10uF	20%	50V
C152	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V
C155	1-126-964-11	ELECT	10uF	20%	50V
C156	1-126-964-11	ELECT	10uF	20%	50V
C157	1-126-964-11	ELECT	10uF	20%	50V
C158	1-126-964-11	ELECT	10uF	20%	50V
C159	1-126-964-11	ELECT	10uF	20%	50V
C160	1-126-964-11	ELECT	10uF	20%	50V
C161	1-126-964-11	ELECT	10uF	20%	50V
C162	1-126-964-11	ELECT	10uF	20%	50V
C163	1-126-964-11	ELECT	10uF	20%	50V
C164	1-126-964-11	ELECT	10uF	20%	50V
C197	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C198	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C199	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C200	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C201	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C202	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C205	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C206	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C207	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C208	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C209	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C210	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C211	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C212	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C213	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C214	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C215	1-126-934-11	ELECT	220uF	20%	16V
C216	1-126-934-11	ELECT	220uF	20%	16V

< CONNECTOR >

Ref. No.	Part No.	Description
CN101	1-695-188-31	JACK, PIN 4P (INPUT 9,10)
CN102	1-695-188-31	JACK, PIN 4P (INPUT 11,12)
CN103	1-695-188-31	JACK, PIN 4P (INPUT 13,14)
CN104	1-695-188-31	JACK, PIN 4P (INPUT 15,16)
CN109	1-764-330-11	PIN, CONNECTOR (PCB)(V TYPE)7P
CN110	1-764-330-11	PIN, CONNECTOR (PCB)(V TYPE)7P

AUDIO 2

Ref. No.	Part No.	Description			Remark
CN111	1-764-330-11	PIN, CONNECTOR (PCB)(V TYPE)7P			
CN112	1-764-330-11	PIN, CONNECTOR (PCB)(V TYPE)7P			
		< DIODE >			
D101	8-719-108-12	DIODE RD9.1E-W			
D102	8-719-108-12	DIODE RD9.1E-W			
D103	8-719-108-12	DIODE RD9.1E-W			
D104	8-719-108-12	DIODE RD9.1E-W			
D105	8-719-108-12	DIODE RD9.1E-W			
D106	8-719-108-12	DIODE RD9.1E-W			
D107	8-719-108-12	DIODE RD9.1E-W			
D108	8-719-108-12	DIODE RD9.1E-W			
D109	8-719-108-12	DIODE RD9.1E-W			
D110	8-719-108-12	DIODE RD9.1E-W			
D111	8-719-108-12	DIODE RD9.1E-W			
D112	8-719-108-12	DIODE RD9.1E-W			
D113	8-719-108-12	DIODE RD9.1E-W			
D114	8-719-108-12	DIODE RD9.1E-W			
D115	8-719-108-12	DIODE RD9.1E-W			
D116	8-719-108-12	DIODE RD9.1E-W			
		< IC >			
IC101	8-759-711-85	IC NJM4580E-D			
IC102	8-759-711-85	IC NJM4580E-D			
IC103	8-759-711-85	IC NJM4580E-D			
IC104	8-759-711-85	IC NJM4580E-D			
IC105	8-759-711-85	IC NJM4580E-D			
IC106	8-759-711-85	IC NJM4580E-D			
IC107	8-759-711-85	IC NJM4580E-D			
IC108	8-759-711-85	IC NJM4580E-D			
IC117	8-759-805-14	IC LC7822			
IC118	8-759-805-14	IC LC7822			
IC119	8-759-805-14	IC LC7822			
IC120	8-759-805-14	IC LC7822			
IC121	8-759-805-14	IC LC7822			
IC122	8-759-805-14	IC LC7822			
IC123	8-759-805-14	IC LC7822			
IC124	8-759-805-14	IC LC7822			
		< RESISTOR >			
R1	1-216-295-00	METAL CHIP	0	5%	1/10W
R3	1-216-295-00	METAL CHIP	0	5%	1/10W
R5	1-216-295-00	METAL CHIP	0	5%	1/10W
R7	1-216-295-00	METAL CHIP	0	5%	1/10W
R9	1-216-295-00	METAL CHIP	0	5%	1/10W
R11	1-216-295-00	METAL CHIP	0	5%	1/10W
R13	1-216-295-00	METAL CHIP	0	5%	1/10W
R15	1-216-295-00	METAL CHIP	0	5%	1/10W
R101	1-216-025-00	METAL GLAZE	100	5%	1/10W
R102	1-216-025-00	METAL GLAZE	100	5%	1/10W
R103	1-216-025-00	METAL GLAZE	100	5%	1/10W
R104	1-216-025-00	METAL GLAZE	100	5%	1/10W
R105	1-216-025-00	METAL GLAZE	100	5%	1/10W
R106	1-216-025-00	METAL GLAZE	100	5%	1/10W
R107	1-216-025-00	METAL GLAZE	100	5%	1/10W
R108	1-216-025-00	METAL GLAZE	100	5%	1/10W
R109	1-216-025-00	METAL GLAZE	100	5%	1/10W
R110	1-216-025-00	METAL GLAZE	100	5%	1/10W
R111	1-216-025-00	METAL GLAZE	100	5%	1/10W
R112	1-216-025-00	METAL GLAZE	100	5%	1/10W
R113	1-216-025-00	METAL GLAZE	100	5%	1/10W
R114	1-216-025-00	METAL GLAZE	100	5%	1/10W
R115	1-216-025-00	METAL GLAZE	100	5%	1/10W
R116	1-216-025-00	METAL GLAZE	100	5%	1/10W
R117	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R118	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R119	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R120	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R121	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R122	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R123	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R124	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R125	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R126	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R127	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R128	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R129	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R130	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R131	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R132	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R133	1-216-017-00	METAL GLAZE	47	5%	1/10W
R134	1-216-017-00	METAL GLAZE	47	5%	1/10W
R135	1-216-017-00	METAL GLAZE	47	5%	1/10W
R136	1-216-017-00	METAL GLAZE	47	5%	1/10W
R137	1-216-017-00	METAL GLAZE	47	5%	1/10W
R138	1-216-017-00	METAL GLAZE	47	5%	1/10W
R139	1-216-017-00	METAL GLAZE	47	5%	1/10W
R140	1-216-017-00	METAL GLAZE	47	5%	1/10W
R141	1-216-017-00	METAL GLAZE	47	5%	1/10W
R142	1-216-017-00	METAL GLAZE	47	5%	1/10W
R143	1-216-017-00	METAL GLAZE	47	5%	1/10W
R144	1-216-017-00	METAL GLAZE	47	5%	1/10W
R145	1-216-017-00	METAL GLAZE	47	5%	1/10W
R146	1-216-017-00	METAL GLAZE	47	5%	1/10W
R147	1-216-017-00	METAL GLAZE	47	5%	1/10W
R148	1-216-017-00	METAL GLAZE	47	5%	1/10W
R181	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R182	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R183	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R184	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R185	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R186	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R187	1-216-089-00	METAL GLAZE	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R188	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R189	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R190	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R191	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R192	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R193	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R194	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R195	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R196	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R293	1-216-081-00	METAL CHIP	22K	5%	1/10W
R294	1-216-081-00	METAL CHIP	22K	5%	1/10W
R295	1-249-385-11	CARBON	2.2	5%	1/6W
R296	1-249-385-11	CARBON	2.2	5%	1/6W

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*	A-4588-784-A	CONTROL BOARD, COMPLETE (880S)
*	A-4588-837-A	CONTROL BOARD, COMPLETE (1680S, 1680S/1)

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*	1-955-960-11	HARNESS, WIRE (34 CORE)

< CAPACITOR >

C601	1-128-057-11	ELECT	330uF	20%	6.3V
C602	1-128-057-11	ELECT	330uF	20%	6.3V
C603	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C604	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C605	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C606	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C607	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C608	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C609	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C610	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C611	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C612	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C613	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C614	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C615	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C616	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C617	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C620	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (1680S, 1680S/1)
C621	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (1680S, 1680S/1)
C622	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (880S)

< CONNECTOR >

CN602	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P (880S)
* CN602	1-564-521-11	PLUG, CONNECTOR 6P (1680S, 1680S/1)
* CN603	1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P (880S)
CN603	1-564-523-11	PLUG, CONNECTOR 8P (1680S, 1680S/1)
* CN604	1-564-726-11	PIN, CONNECTOR (SMALL TYPE)10P (880S)
* CN604	1-564-525-11	PLUG, CONNECTOR 10P (1680S, 1680S/1)

< DIODE >

Ref. No.	Part No.	Description	Remark
D601	8-719-049-35	DIODE RB421DT146	
D602	8-719-049-35	DIODE RB421DT146	
D603	8-719-049-35	DIODE RB421DT146	
D604	8-719-049-35	DIODE RB421DT146	
D605	8-719-049-35	DIODE RB421DT146	
D606	8-719-049-35	DIODE RB421DT146	
D607	8-719-049-35	DIODE RB421DT146	
D608	8-719-049-35	DIODE RB421DT146	
D609	8-719-047-59	LED CL-150G-CD (REMOTE)	
D610	8-719-026-16	LED CL-150D-CD-T (AV SEPARATE)	
D611	8-719-951-37	DIODE LA-301VB (880S)	
D611	8-719-049-35	DIODE RB421DT146 (1680S, 1680S/1)	
D612	8-719-951-37	DIODE LA-301VB (880S)	
D612	8-719-049-35	DIODE RB421DT146 (1680S, 1680S/1)	
D613	8-719-049-35	DIODE RB421DT146 (1680S, 1680S/1)	
D614	8-719-049-35	DIODE RB421DT146 (1680S, 1680S/1)	
D615	8-719-049-35	DIODE RB421DT146 (1680S, 1680S/1)	
D616	8-719-049-35	DIODE RB421DT146 (1680S, 1680S/1)	
D617	8-719-049-35	DIODE RB421DT146 (1680S, 1680S/1)	
D618	8-719-049-35	DIODE RB421DT146 (1680S, 1680S/1)	
D619	8-719-951-37	DIODE LA-301VB (1680S, 1680S/1)	
D620	8-719-951-37	DIODE LA-301VB (1680S, 1680S/1)	

< IC >

IC601	8-759-432-82	IC uPD78P054GC-067-3B9
IC602	8-759-925-74	IC SN74HC04ANS
IC603	8-759-926-18	IC SN74HC157ANS
IC604	8-759-926-18	IC SN74HC157ANS
IC605	8-759-926-11	IC SN74HC138ANS
IC606	8-759-177-46	IC S-80718AN-DF-T1
IC607	8-759-355-22	IC BU2114F-E2
IC608	8-759-355-22	IC BU2114F-E2
IC609	8-759-350-39	IC XL93LC66RF-T1
IC610	8-759-926-82	IC SN74HC574ANS (1680S, 1680S/1)

< TRANSISTOR >

Q601	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q602	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q603	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q604	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q605	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q606	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q607	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q608	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q609	8-729-926-65	TRANSISTOR DTD123TK-T-146
Q610	8-729-901-97	TRANSISTOR 2SA1036K-Q
Q611	8-729-901-97	TRANSISTOR 2SA1036K-Q
Q612	8-729-901-97	TRANSISTOR 2SA1036K-Q
Q613	8-729-901-97	TRANSISTOR 2SA1036K-Q
Q614	8-729-901-97	TRANSISTOR 2SA1036K-Q
Q615	8-729-901-97	TRANSISTOR 2SA1036K-Q

CONTROL

Ref. No.	Part No.	Description			Remark
Q616	8-729-901-97	TRANSISTOR	2SA1036K-Q		
Q617	8-729-901-97	TRANSISTOR	2SA1036K-Q		
Q618	8-729-901-04	TRANSISTOR	DTA114EK		
Q619	8-729-901-01	TRANSISTOR	DTC144EK		
Q620	8-729-901-04	TRANSISTOR	DTA114EK		
Q621	8-729-926-65	TRANSISTOR	DTD123TK-T-146		(1680S, 1680S/1)
Q622	8-729-926-65	TRANSISTOR	DTD123TK-T-146		(1680S, 1680S/1)
Q623	8-729-926-65	TRANSISTOR	DTD123TK-T-146		(1680S, 1680S/1)
Q624	8-729-926-65	TRANSISTOR	DTD123TK-T-146		(1680S, 1680S/1)
Q625	8-729-926-65	TRANSISTOR	DTD123TK-T-146		(1680S, 1680S/1)
Q626	8-729-926-65	TRANSISTOR	DTD123TK-T-146		(1680S, 1680S/1)
Q627	8-729-926-65	TRANSISTOR	DTD123TK-T-146		(1680S, 1680S/1)
Q628	8-729-926-65	TRANSISTOR	DTD123TK-T-146		(1680S, 1680S/1)
Q629	8-729-901-97	TRANSISTOR	2SA1036K-Q (1680S, 1680S/1)		
Q630	8-729-901-97	TRANSISTOR	2SA1036K-Q (1680S, 1680S/1)		
Q631	8-729-901-97	TRANSISTOR	2SA1036K-Q (1680S, 1680S/1)		
Q632	8-729-901-97	TRANSISTOR	2SA1036K-Q (1680S, 1680S/1)		
Q633	8-729-901-97	TRANSISTOR	2SA1036K-Q (1680S, 1680S/1)		
Q634	8-729-901-97	TRANSISTOR	2SA1036K-Q (1680S, 1680S/1)		
Q635	8-729-901-97	TRANSISTOR	2SA1036K-Q (1680S, 1680S/1)		
Q636	8-729-901-97	TRANSISTOR	2SA1036K-Q (1680S, 1680S/1)		
		< RESISTOR >			
R601	1-216-005-00	METAL CHIP	15	5%	1/10W
R602	1-216-005-00	METAL CHIP	15	5%	1/10W
R603	1-216-005-00	METAL CHIP	15	5%	1/10W
R604	1-216-005-00	METAL CHIP	15	5%	1/10W
R605	1-216-005-00	METAL CHIP	15	5%	1/10W
R606	1-216-005-00	METAL CHIP	15	5%	1/10W
R607	1-216-005-00	METAL CHIP	15	5%	1/10W
R608	1-216-005-00	METAL CHIP	15	5%	1/10W
R609	1-216-005-00	METAL CHIP	15	5%	1/10W
R610	1-216-005-00	METAL CHIP	15	5%	1/10W
R611	1-216-005-00	METAL CHIP	15	5%	1/10W
R612	1-216-005-00	METAL CHIP	15	5%	1/10W
R613	1-216-005-00	METAL CHIP	15	5%	1/10W
R614	1-216-005-00	METAL CHIP	15	5%	1/10W
R615	1-216-005-00	METAL CHIP	15	5%	1/10W
R616	1-216-005-00	METAL CHIP	15	5%	1/10W
R617	1-216-005-00	METAL CHIP	15	5%	1/10W
R618	1-216-005-00	METAL CHIP	15	5%	1/10W
R619	1-216-005-00	METAL CHIP	15	5%	1/10W
R620	1-216-005-00	METAL CHIP	15	5%	1/10W
R621	1-216-005-00	METAL CHIP	15	5%	1/10W
R622	1-216-005-00	METAL CHIP	15	5%	1/10W

Ref. No.	Part No.	Description			Remark
R623	1-216-005-00	METAL CHIP	15	5%	1/10W
R624	1-216-005-00	METAL CHIP	15	5%	1/10W
R625	1-216-005-00	METAL CHIP	15	5%	1/10W
R626	1-216-005-00	METAL CHIP	15	5%	1/10W
R627	1-216-005-00	METAL CHIP	15	5%	1/10W
R628	1-216-005-00	METAL CHIP	15	5%	1/10W
R629	1-216-005-00	METAL CHIP	15	5%	1/10W
R630	1-216-005-00	METAL CHIP	15	5%	1/10W
R631	1-216-005-00	METAL CHIP	15	5%	1/10W
R632	1-216-005-00	METAL CHIP	15	5%	1/10W
R633	1-216-005-00	METAL CHIP	15	5%	1/10W
R634	1-216-005-00	METAL CHIP	15	5%	1/10W
R635	1-216-005-00	METAL CHIP	15	5%	1/10W
R636	1-216-005-00	METAL CHIP	15	5%	1/10W
R637	1-216-005-00	METAL CHIP	15	5%	1/10W
R638	1-216-005-00	METAL CHIP	15	5%	1/10W
R639	1-216-005-00	METAL CHIP	15	5%	1/10W
R640	1-216-005-00	METAL CHIP	15	5%	1/10W
R641	1-216-005-00	METAL CHIP	15	5%	1/10W
R642	1-216-005-00	METAL CHIP	15	5%	1/10W
R643	1-216-005-00	METAL CHIP	15	5%	1/10W
R644	1-216-005-00	METAL CHIP	15	5%	1/10W
R645	1-216-005-00	METAL CHIP	15	5%	1/10W
R646	1-216-005-00	METAL CHIP	15	5%	1/10W
R647	1-216-005-00	METAL CHIP	15	5%	1/10W
R648	1-216-005-00	METAL CHIP	15	5%	1/10W
R649	1-216-005-00	METAL CHIP	15	5%	1/10W
R650	1-216-005-00	METAL CHIP	15	5%	1/10W
R651	1-216-005-00	METAL CHIP	15	5%	1/10W
R652	1-216-005-00	METAL CHIP	15	5%	1/10W
R653	1-216-005-00	METAL CHIP	15	5%	1/10W
R654	1-216-005-00	METAL CHIP	15	5%	1/10W
R655	1-216-005-00	METAL CHIP	15	5%	1/10W
R656	1-216-005-00	METAL CHIP	15	5%	1/10W
R657	1-216-005-00	METAL CHIP	15	5%	1/10W
R658	1-216-005-00	METAL CHIP	15	5%	1/10W
R659	1-216-005-00	METAL CHIP	15	5%	1/10W
R660	1-216-005-00	METAL CHIP	15	5%	1/10W
R661	1-216-005-00	METAL CHIP	15	5%	1/10W
R662	1-216-005-00	METAL CHIP	15	5%	1/10W
R663	1-216-005-00	METAL CHIP	15	5%	1/10W
R664	1-216-005-00	METAL CHIP	15	5%	1/10W
R665	1-216-005-00	METAL CHIP	15	5%	1/10W
R666	1-216-005-00	METAL CHIP	15	5%	1/10W
R667	1-216-005-00	METAL CHIP	15	5%	1/10W
R668	1-216-005-00	METAL CHIP	15	5%	1/10W
R669	1-216-005-00	METAL CHIP	15	5%	1/10W
R670	1-216-005-00	METAL CHIP	15	5%	1/10W
R671	1-216-005-00	METAL CHIP	15	5%	1/10W
R672	1-216-005-00	METAL CHIP	15	5%	1/10W
R673	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R674	1-216-053-00	METAL CHIP	1.5K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R675	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R676	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R677	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R678	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R679	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R680	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R681	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R682	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R683	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R684	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R685	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R686	1-216-025-00	METAL GLAZE	100	5%	1/10W
R687	1-216-025-00	METAL GLAZE	100	5%	1/10W
R688	1-216-073-00	METAL CHIP	10K	5%	1/10W (880S)
R688	1-216-089-00	METAL GLAZE	47K	5%	1/10W (1680S, 1680S/1)
R689	1-216-089-00	METAL GLAZE	47K	5%	1/10W (880S)
R690	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R691	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R692	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R693	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R694	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R695	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R696	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R697	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R698	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R699	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R700	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R701	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R702	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R703	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R704	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R705	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R706	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R707	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R708	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R709	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R710	1-216-113-00	METAL CHIP	470K	5%	1/10W
R711	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R712	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R713	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R714	1-216-045-00	METAL CHIP	680	5%	1/10W
R715	1-216-045-00	METAL CHIP	680	5%	1/10W
R716	1-216-045-00	METAL CHIP	680	5%	1/10W
R717	1-216-045-00	METAL CHIP	680	5%	1/10W
R718	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R719	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R720	1-216-073-00	METAL CHIP	10K	5%	1/10W
R721	1-216-039-00	METAL CHIP	390	5%	1/10W
R722	1-216-039-00	METAL CHIP	390	5%	1/10W
R723	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R724	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R725	1-216-025-00	METAL GLAZE	100	5%	1/10W
R726	1-216-025-00	METAL GLAZE	100	5%	1/10W
R727	1-216-025-00	METAL GLAZE	100	5%	1/10W
R728	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R729	1-216-039-00	METAL CHIP	390	5%	1/10W
R730	1-216-039-00	METAL CHIP	390	5%	1/10W
R731	1-216-039-00	METAL CHIP	390	5%	1/10W
R732	1-216-039-00	METAL CHIP	390	5%	1/10W
R733	1-216-039-00	METAL CHIP	390	5%	1/10W
R734	1-216-039-00	METAL CHIP	390	5%	1/10W
R735	1-216-039-00	METAL CHIP	390	5%	1/10W
R736	1-216-033-00	METAL CHIP	220	5%	1/10W
R737	1-216-039-00	METAL CHIP	390	5%	1/10W
R738	1-216-039-00	METAL CHIP	390	5%	1/10W
R739	1-216-039-00	METAL CHIP	390	5%	1/10W
R740	1-216-039-00	METAL CHIP	390	5%	1/10W
R741	1-216-039-00	METAL CHIP	390	5%	1/10W
R742	1-216-039-00	METAL CHIP	390	5%	1/10W
R743	1-216-039-00	METAL CHIP	390	5%	1/10W
R744	1-216-033-00	METAL CHIP	220	5%	1/10W
R745	1-216-073-00	METAL CHIP	10K	5%	1/10W
R746	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R747	1-216-081-00	METAL CHIP	22K	5%	1/10W
R748	1-216-081-00	METAL CHIP	22K	5%	1/10W
R749	1-216-081-00	METAL CHIP	22K	5%	1/10W
R750	1-216-081-00	METAL CHIP	22K	5%	1/10W
R751	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R752	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R753	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R754	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R755	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R756	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R757	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R758	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R759	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)
R760	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)
R761	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)
R762	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)
R763	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)
R764	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)
R765	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)
R766	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)
R767	1-216-005-00	METAL CHIP	15	5%	1/10W (1680S, 1680S/1)

CONTROL

Ref. No.	Part No.	Description		Remark
R768	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R769	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R770	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R771	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R772	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R773	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R774	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R775	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R776	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R777	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R778	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R779	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R780	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R781	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R782	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R783	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R784	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R785	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R786	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R787	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R788	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R789	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R790	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R791	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R792	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R793	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R794	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R795	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R796	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R797	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R798	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R799	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R800	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R801	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R802	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R803	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R804	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R805	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R806	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R807	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R808	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R809	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R810	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R811	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R812	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R813	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R814	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R815	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R816	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R817	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R818	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R819	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R820	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R821	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R822	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)
R823	1-216-005-00	METAL CHIP	15	5% 1/10W (1680S, 1680S/1)

Ref. No.	Part No.	Description	Remark
R824	1-216-053-00	METAL CHIP 1.5K	5% 1/10W (1680S, 1680S/1)
R825	1-216-053-00	METAL CHIP 1.5K	5% 1/10W (1680S, 1680S/1)
R826	1-216-053-00	METAL CHIP 1.5K	5% 1/10W (1680S, 1680S/1)
R827	1-216-053-00	METAL CHIP 1.5K	5% 1/10W (1680S, 1680S/1)
R828	1-216-053-00	METAL CHIP 1.5K	5% 1/10W (1680S, 1680S/1)
R829	1-216-053-00	METAL CHIP 1.5K	5% 1/10W (1680S, 1680S/1)
R830	1-216-053-00	METAL CHIP 1.5K	5% 1/10W (1680S, 1680S/1)
R831	1-216-053-00	METAL CHIP 1.5K	5% 1/10W (1680S, 1680S/1)
		< SWITCH >	
SW601-741	1-762-141-12	SWITCH, KEY BOARD (WITH LED)	
		< VIBRATOR >	
X601	1-577-082-11	VIBRATOR, CERAMIC (4MHz)	

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*	A-4588-791-A	FUSE BOARD, COMPLETE ********************	
	1-533-293-11	FUSE HOLDER	
		< CAPACITOR >	
C941	1-136-472-11	FILM 0.1uF 20% 250V	
		< CONNECTOR >	
* CN941	1-564-321-21	PIN, CONNECTOR 2P	
CN942	1-564-321-00	PIN, CONNECTOR 2P	
		< FUSE>	
⚠F941	1-532-285-00	FUSE, TIME-LAG (T1.25AL 250V) (AEP,UK)	
⚠F941	1-532-743-11	FUSE, GLASS TUBE (2A 125V) (J)	

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*	A-4588-843-A	LOCK SW BOARD, COMPLETE ***********************	
		< CONNECTOR >	
CN951	1-564-505-11	PLUG, CONNECTOR 2P (880S)	
CN951	1-764-325-11	PIN, CONNECTOR (PCB) (V TYPE)2P	(1680S, 1680S/1)
		< SWITCH >	
SW951	1-570-157-21	SWITCH, SLIDE (LOCK) (880S)	
SW951	1-554-481-00	SWITCH, SLIDE (LOCK) (1680S, 1680S/1)	

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Ref. No.	Part No.	Description	Remark
*	A-4588-786-A	PI-1 BOARD, COMPLETE(880S)	
*	A-4588-838-A	PI-1 BOARD, COMPLETE (1680S, 1680S/1) ********************	
		< CAPACITOR >	
C851	1-164-159-11	CERAMIC 0.1uF 50V	
C852	1-164-159-11	CERAMIC 0.1uF 50V	
C853	1-164-159-11	CERAMIC 0.1uF 50V	
C854	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CN853	1-764-121-21	SOCKET, (D) SUB CONNECTOR 25P (REMOTE,PARALLEL IN 1)	
		< DIODE >	
D851	8-719-988-62	DIODE 1SS355	
D852	8-719-988-62	DIODE 1SS355	
D853	8-719-988-62	DIODE 1SS355	
D854	8-719-988-62	DIODE 1SS355	
D855	8-719-988-62	DIODE 1SS355	
D856	8-719-988-62	DIODE 1SS355	
D857	8-719-988-62	DIODE 1SS355	
D858	8-719-988-62	DIODE 1SS355	
D859	8-719-988-62	DIODE 1SS355	
D860	8-719-988-62	DIODE 1SS355	
D861	8-719-988-62	DIODE 1SS355	
D862	8-719-988-62	DIODE 1SS355	
D863	8-719-988-62	DIODE 1SS355	
D864	8-719-988-62	DIODE 1SS355	
D865	8-719-988-62	DIODE 1SS355	
D866	8-719-988-62	DIODE 1SS355	
D867	8-719-988-62	DIODE 1SS355	
D868	8-719-988-62	DIODE 1SS355	
D869	8-719-988-62	DIODE 1SS355	
D870	8-719-988-62	DIODE 1SS355	
D871	8-719-988-62	DIODE 1SS355	
D872	8-719-988-62	DIODE 1SS355	
D873	8-719-988-62	DIODE 1SS355	
D874	8-719-988-62	DIODE 1SS355	
D875	8-719-988-62	DIODE 1SS355	
D876	8-719-988-62	DIODE 1SS355	
D877	8-719-988-62	DIODE 1SS355	
D878	8-719-988-62	DIODE 1SS355	
D879	8-719-988-62	DIODE 1SS355	
D880	8-719-988-62	DIODE 1SS355	
D881	8-719-988-62	DIODE 1SS355	
D882	8-719-988-62	DIODE 1SS355	
		< IC >	
IC851	8-759-926-77	IC SN74HC541ANS	
IC852	8-759-926-77	IC SN74HC541ANS	
IC853	8-759-931-03	IC SN74LS348NS	

PI-1 PI-2

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R851	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R852	1-216-073-00	METAL CHIP	10K	5%	1/10W
R853	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R854	1-216-073-00	METAL CHIP	10K	5%	1/10W
R855	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R856	1-216-073-00	METAL CHIP	10K	5%	1/10W
R857	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R858	1-216-073-00	METAL CHIP	10K	5%	1/10W
R859	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R860	1-216-073-00	METAL CHIP	10K	5%	1/10W
R861	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R862	1-216-073-00	METAL CHIP	10K	5%	1/10W
R863	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R864	1-216-073-00	METAL CHIP	10K	5%	1/10W
R865	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R866	1-216-073-00	METAL CHIP	10K	5%	1/10W
R867	1-216-295-00	METAL CHIP	0	5%	1/10W
R868	1-216-295-00	METAL CHIP	0	5%	1/10W
R869	1-216-295-00	METAL CHIP	0	5%	1/10W
R870	1-216-295-00	METAL CHIP	0	5%	1/10W
R871	1-216-295-00	METAL CHIP	0	5%	1/10W
R872	1-216-295-00	METAL CHIP	0	5%	1/10W
R873	1-216-295-00	METAL CHIP	0	5%	1/10W
R874	1-216-295-00	METAL CHIP	0	5%	1/10W
R875	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R876	1-216-073-00	METAL CHIP	10K	5%	1/10W
R877	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R878	1-216-073-00	METAL CHIP	10K	5%	1/10W
R879	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R880	1-216-073-00	METAL CHIP	10K	5%	1/10W
R881	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R882	1-216-073-00	METAL CHIP	10K	5%	1/10W
R883	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R884	1-216-073-00	METAL CHIP	10K	5%	1/10W
R885	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R886	1-216-073-00	METAL CHIP	10K	5%	1/10W
R887	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R888	1-216-073-00	METAL CHIP	10K	5%	1/10W
R889	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R890	1-216-073-00	METAL CHIP	10K	5%	1/10W
R891	1-216-295-00	METAL CHIP	0	5%	1/10W
R892	1-216-295-00	METAL CHIP	0	5%	1/10W
R893	1-216-295-00	METAL CHIP	0	5%	1/10W
R894	1-216-295-00	METAL CHIP	0	5%	1/10W
R895	1-216-295-00	METAL CHIP	0	5%	1/10W
R896	1-216-295-00	METAL CHIP	0	5%	1/10W
R897	1-216-295-00	METAL CHIP	0	5%	1/10W
R898	1-216-295-00	METAL CHIP	0	5%	1/10W
R899	1-247-807-31	CARBON	100	5%	1/4W
R900	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R901	1-247-807-31	CARBON	100	5%	1/4W
R902	1-247-807-31	CARBON	100	5%	1/4W
		< COMPOSITION CIRCUIT BLOCK >			
RB851	1-235-339-11	RES BLOCK 47KX8 (1680S, 1680S/1)			
RB851	1-235-732-11	RES, ENCAPSULATED CERMET (880S)			

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Ref. No.	Part No.	Description			Remark
*	A-4588-839-A	PI-2 BOARD, COMPLETE (1680S, 1680S/1) *******************			
		< CAPACITOR >			
C1	1-164-159-11	CERAMIC	0.1uF	50V	
C3	1-164-159-11	CERAMIC	0.1uF	50V	
C4	1-164-159-11	CERAMIC	0.1uF	50V	
		< CONNECTOR >			
* CN1	1-564-713-11	PIN, CONNECTOR (SMALL TYPE)11P			
CN3	1-764-121-21	SOCKET, (D) SUB CONNECTOR 25P (REMOTE, PARALLEL IN 2)			
		< DIODE >			
D1	8-719-988-62	DIODE 1SS355			
D2	8-719-988-62	DIODE 1SS355			
D3	8-719-988-62	DIODE 1SS355			
D4	8-719-988-62	DIODE 1SS355			
D5	8-719-988-62	DIODE 1SS355			
D6	8-719-988-62	DIODE 1SS355			
D7	8-719-988-62	DIODE 1SS355			
D8	8-719-988-62	DIODE 1SS355			
D9	8-719-988-62	DIODE 1SS355			
D10	8-719-988-62	DIODE 1SS355			
D11	8-719-988-62	DIODE 1SS355			
D12	8-719-988-62	DIODE 1SS355			
D13	8-719-988-62	DIODE 1SS355			
D14	8-719-988-62	DIODE 1SS355			
D15	8-719-988-62	DIODE 1SS355			
D16	8-719-988-62	DIODE 1SS355			
		< IC >			
IC1	8-759-926-77	IC SN74HC541ANS			
IC3	8-759-931-03	IC SN74LS348NS			
		< RESISTOR >			
R1	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R2	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R4	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R6	1-216-073-00	METAL CHIP	10K	5%	1/10W
R7	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R8	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R9	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W
R11	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R12	1-216-073-00	METAL CHIP	10K	5%	1/10W
R13	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R14	1-216-073-00	METAL CHIP	10K	5%	1/10W
R15	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R16	1-216-073-00	METAL CHIP	10K	5%	1/10W
R17	1-216-295-00	METAL CHIP	0	5%	1/10W
R18	1-216-295-00	METAL CHIP	0	5%	1/10W
R19	1-216-295-00	METAL CHIP	0	5%	1/10W
R20	1-216-295-00	METAL CHIP	0	5%	1/10W
R21	1-216-295-00	METAL CHIP	0	5%	1/10W
R22	1-216-295-00	METAL CHIP	0	5%	1/10W
R23	1-216-295-00	METAL CHIP	0	5%	1/10W
R24	1-216-295-00	METAL CHIP	0	5%	1/10W
R49	1-247-807-31	CARBON	100	5%	1/4W
R50	1-247-807-31	CARBON	100	5%	1/4W
R51	1-247-807-31	CARBON	100	5%	1/4W
		< COMPOSITION CIRCUIT BLOCK >			
RB1	1-235-339-11	RES BLOCK 47KX8			

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Ref. No.	Part No.	Description			Remark
*	A-4588-790-A	POWER BOARD, COMPLETE (880S)			
*	A-4588-842-A	POWER BOARD, COMPLETE (1680S, 1680S/1)			
		************************			
	1-533-293-11	FUSE HOLDER			
*	4-363-146-21	HEAT SINK, V.OUT			
	7-685-646-79	SCREW +BVTP	3X8 TYPE2 N-S		
		< CAPACITOR >			
C802	1-124-464-11	ELECT	0.22uF	20%	50V
C803	1-104-661-00	ELECT	330uF	20%	16V
C804	1-126-952-11	ELECT	1000uF	20%	16V
C805	1-104-661-00	ELECT	330uF	20%	16V
C806	1-104-661-00	ELECT	330uF	20%	16V
C807	1-126-964-11	ELECT	10uF	20%	50V
C808	1-126-964-11	ELECT	10uF	20%	50V
C809	1-126-964-11	ELECT	10uF	20%	50V
C810	1-126-964-11	ELECT	10uF	20%	50V
C811	1-125-744-11	ELECT	22000uF	20%	25V
C812	1-104-767-11	ELECT	4700uF	20%	35V (880S)
C813	1-125-741-11	ELECT	12000uF	20%	25V
C814	1-104-767-11	ELECT	4700uF	20%	35V (880S)
C815	1-104-341-11	FILM	0.1uF	10%	250V
C816	1-104-341-11	FILM	0.1uF	10%	250V
C817	1-164-159-11	CERAMIC	0.1uF		50V
C818	1-104-661-00	ELECT	330uF	20%	16V
C819	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C820	1-126-964-11	ELECT	10uF	20%	50V
C821	1-164-159-11	CERAMIC	0.1uF		50V
C822	1-125-741-11	ELECT	12000uF	20%	25V
C823	1-164-159-11	CERAMIC	0.1uF		50V
C824	1-164-159-11	CERAMIC	0.1uF		50V
C825	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN802	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P (1680S, 1680S/1)			
* CN803	1-564-513-11	PLUG, CONNECTOR 10P (880S)			
CN803	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)10P (1680S, 1680S/1)			
CN804	1-564-515-11	PIN, CONNECTOR(PCB)(V TYPE)12P (1680S, 1680S/1)			
CN805	1-564-515-11	PIN, CONNECTOR(PCB)(V TYPE)12P			
CN806	1-764-328-31	PIN, CONNECTOR (PCB)(V TYPE)5P (1680S, 1680S/1)			
* CN807	1-564-508-11	PLUG, CONNECTOR 5P (880S)			
CN807	1-764-328-11	PIN, CONNECTOR (PCB)(V TYPE)5P (1680S, 1680S/1)			
CN808	1-564-511-11	PLUG, CONNECTOR 8P (880S)			
CN808	1-764-331-11	PIN, CONNECTOR (PCB)(V TYPE)8P (1680S, 1680S/1)			
* CN809	1-564-514-11	PLUG, CONNECTOR 11P (880S)			
CN809	1-764-334-11	PIN, CONNECTOR(PCB)(V TYPE)11P (1680S, 1680S/1)			
* CN810	1-564-509-11	PLUG, CONNECTOR 6P (880S)			
CN810	1-764-329-11	PIN, CONNECTOR (PCB)(V TYPE)6P (1680S, 1680S/1)			
* CN811	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
* CN812	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P			
		< DIODE >			
D801	8-719-200-02	DIODE	10E2 (880S)		
D801	8-719-200-82	DIODE	11ES2 (1680S, 1680S/1)		
D802	8-719-200-02	DIODE	10E2 (880S)		
D802	8-719-200-82	DIODE	11ES2 (1680S, 1680S/1)		
D803	8-719-987-63	DIODE	1N4148M		
D804	8-719-933-38	DIODE	HZS6B3L		
D805	8-719-109-75	DIODE	RD4.3ES-B2		
D806	8-719-200-02	DIODE	10E2 (880S)		
D806	8-719-200-82	DIODE	11ES2 (1680S, 1680S/1)		
D807	8-719-987-63	DIODE	1N4148M		
D808	8-719-002-09	DIODE	UZL-18M		
D809	8-719-002-09	DIODE	UZL-18M		
D810	8-719-019-26	DIODE	ZSML-7.5Z		
D811	8-719-019-26	DIODE	ZSML-7.5Z		
D812	8-719-019-26	DIODE	ZSML-7.5Z		
D813	8-719-019-26	DIODE	ZSML-7.5Z		
D814	8-719-019-26	DIODE	ZSML-7.5Z		
D815	8-719-019-26	DIODE	ZSML-7.5Z		
D816	8-719-019-26	DIODE	ZSML-7.5Z		

POWER

POWER SW

Ref. No.	Part No.	Description	Remark
D817	8-719-019-26	DIODE ZSML-7.5Z	
⚠D818	8-719-025-03	DIODE RBA-402-SL	
⚠D819	8-719-025-03	DIODE RBA-402-SL	
		< FUSE>	
⚠F851	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F851	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F852	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F852	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F853	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F853	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F854	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F854	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
		< IC >	
IC801	8-759-925-80	IC SN74HC14ANS	
IC802	8-759-232-86	IC TC74HC238AF	
IC803	8-759-232-86	IC TC74HC238AF	
IC804	8-759-701-75	IC NJM7805FA	
IC805	8-759-701-75	IC NJM7805FA	
IC806	8-759-701-84	IC NJM7905FA	
IC807	8-759-231-58	IC TA7812S	
IC808	8-759-701-88	IC NJM7912FA	
IC809	8-759-925-72	IC SN74HC02ANS	
		< TRANSISTOR >	
Q801	8-729-029-67	TRANSISTOR DTC114ESA	
Q802	8-729-806-61	TRANSISTOR 2SC4067	
Q803	8-729-030-03	TRANSISTOR DTC144ESA	
Q804	8-729-030-03	TRANSISTOR DTC144ESA	
Q805	8-729-029-39	TRANSISTOR DTA123YSA-TP	
Q806	8-729-029-39	TRANSISTOR DTA123YSA-TP	
Q807	8-729-029-39	TRANSISTOR DTA123YSA-TP	
Q808	8-729-029-39	TRANSISTOR DTA123YSA-TP	
Q809	8-729-029-39	TRANSISTOR DTA123YSA-TP	
Q810	8-729-029-39	TRANSISTOR DTA123YSA-TP	
Q811	8-729-029-39	TRANSISTOR DTA123YSA-TP	
Q812	8-729-029-39	TRANSISTOR DTA123YSA-TP	
		< RESISTOR >	
R801	1-249-429-11	CARBON 10K 5% 1/4W	
⚠R802	1-212-849-00	FUSIBLE 4.7 5% 1/4W	F
R804	1-249-437-11	CARBON 47K 5% 1/4W	
R805	1-249-429-11	CARBON 10K 5% 1/4W	
R806	1-249-417-11	CARBON 1K 5% 1/4W	
R807	1-249-429-11	CARBON 10K 5% 1/4W	
R808	1-247-893-11	CARBON 390K 5% 1/4W	
R809	1-249-417-11	CARBON 1K 5% 1/4W	
R810	1-249-429-11	CARBON 10K 5% 1/4W	
R811	1-249-429-11	CARBON 10K 5% 1/4W	
R812	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R813	1-216-041-00	METAL CHIP 470 5% 1/10W	
R814	1-216-041-00	METAL CHIP 470 5% 1/10W	
R815	1-216-037-00	METAL CHIP 330 5% 1/10W	
R816	1-216-037-00	METAL CHIP 330 5% 1/10W	
R817	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R818	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R819	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R820	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R821	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R822	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R823	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R824	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R825	1-216-037-00	METAL CHIP 330 5% 1/10W	
R826	1-216-037-00	METAL CHIP 330 5% 1/10W	
R827	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R828	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R829	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R830	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R831	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R832	1-249-417-11	CARBON 1K 5% 1/4W	
R833	1-249-417-11	CARBON 1K 5% 1/4W	
R834	1-249-417-11	CARBON 1K 5% 1/4W	
R835	1-249-417-11	CARBON 1K 5% 1/4W	
R836	1-249-417-11	CARBON 1K 5% 1/4W	
R837	1-249-417-11	CARBON 1K 5% 1/4W	
R838	1-249-417-11	CARBON 1K 5% 1/4W	
R839	1-249-417-11	CARBON 1K 5% 1/4W	
		< COMPOSITION CIRCUIT BLOCK >	
RB801	1-235-724-11	RES, ENCAPSULATED CERMET	
		< RELAY >	
RY801	1-515-726-11	RELAY	
RY802	1-515-726-11	RELAY	

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Ref. No.	Part No.	Description	Remark
*	A-4588-783-A	POWER SW BOARD, COMPLETE	

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Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN971	1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D971	8-719-820-51	LED TLSG126 (POWER)	
		< SWITCH >	
SW971	1-692-054-11	SWITCH, PUSH (2 KEY) (POWER)	

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⚠印の部品，または⚠印付きの点線で囲まれた部品は，安全性を維持するために重要な部品です。従って交換時は，必ず指定の部品を使用して下さい。	The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
*	A-4588-785-A	RS-232C BOARD, COMPLETE ************************			
		< CAPACITOR >			
C961	1-126-963-11	ELECT	4.7uF	20%	50V
C962	1-126-963-11	ELECT	4.7uF	20%	50V
C963	1-126-964-11	ELECT	10uF	20%	50V
C964	1-126-964-11	ELECT	10uF	20%	50V
C965	1-164-159-11	CERAMIC	0.1uF	50V	
C966	1-164-159-11	CERAMIC	0.1uF	50V	
		< CONNECTOR >			
CN962	1-764-121-21	SOCKET, (D) SUB CONNECTOR 25P (RS-232C)			
		< DIODE >			
D961	8-719-002-09	DIODE UZL-18M			
D962	8-719-002-09	DIODE UZL-18M			
D963	8-719-002-09	DIODE UZL-18M			
D964	8-719-002-09	DIODE UZL-18M			
D965	8-719-002-09	DIODE UZL-18M			
D966	8-719-002-09	DIODE UZL-18M			
D967	8-719-002-09	DIODE UZL-18M			
D968	8-719-002-09	DIODE UZL-18M			
D969	8-719-002-09	DIODE UZL-18M			
D970	8-719-002-09	DIODE UZL-18M			
D971	8-719-002-09	DIODE UZL-18M			
D972	8-719-002-09	DIODE UZL-18M			
		< IC >			
IC961	8-759-972-58	IC MAX238CNG			
		< RESISTOR >			
R961	1-247-807-31	CARBON	100	5%	1/4W
R962	1-247-807-31	CARBON	100	5%	1/4W
R963	1-247-807-31	CARBON	100	5%	1/4W

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Ref. No.	Part No.	Description			Remark
*	A-4588-789-A	S VIDEO BOARD, COMPLETE ***********************			
	1-216-295-00	METAL CHIP	0	5%	1/10W
		< CAPACITOR >			
C501	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C502	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C503	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C504	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C506	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C507	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C508	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C509	1-126-963-11	ELECT	4.7uF	20%	50V
C510	1-126-963-11	ELECT	4.7uF	20%	50V
C511	1-126-963-11	ELECT	4.7uF	20%	50V
C512	1-126-963-11	ELECT	4.7uF	20%	50V
C513	1-126-963-11	ELECT	4.7uF	20%	50V
C514	1-126-963-11	ELECT	4.7uF	20%	50V
C515	1-126-963-11	ELECT	4.7uF	20%	50V
C516	1-126-963-11	ELECT	4.7uF	20%	50V
C517	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C518	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C519	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C520	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C521	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C522	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C523	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C524	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C525	1-104-656-11	ELECT	2200uF	20%	6.3V
C526	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C527	1-104-656-11	ELECT	2200uF	20%	6.3V
C528	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C529	1-104-656-11	ELECT	2200uF	20%	6.3V
C530	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C531	1-104-656-11	ELECT	2200uF	20%	6.3V
C532	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C533	1-126-962-11	ELECT	3.3uF	20%	50V
C534	1-126-962-11	ELECT	3.3uF	20%	50V
C535	1-126-965-11	ELECT	22uF	20%	50V
C536	1-126-934-11	ELECT	220uF	20%	16V
C537	1-126-934-11	ELECT	220uF	20%	16V
C538	1-126-964-11	ELECT	10uF	20%	50V
C539	1-126-934-11	ELECT	220uF	20%	16V
C540	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C541	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C542	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C543	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C544	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C545	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C551	1-126-933-11	ELECT	100uF	20%	16V
C552	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C553	1-126-933-11	ELECT	100uF	20%	16V
C554	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C555	1-126-933-11	ELECT	100uF	20%	16V
C556	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C557	1-126-933-11	ELECT	100uF	20%	16V
C558	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C559	1-126-933-11	ELECT	100uF	20%	16V
C560	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C561	1-126-933-11	ELECT	100uF	20%	16V
C562	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C563	1-126-933-11	ELECT	100uF	20%	16V
C564	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C565	1-126-933-11	ELECT	100uF	20%	16V
C566	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C567	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C568	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

S VIDEO

Ref. No.	Part No.	Description	Remark
C569	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C570	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C571	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C572	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C573	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C574	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C575	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C576	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C577	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C578	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C579	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C580	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C581	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C582	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
		< CONNECTOR >	
CN501	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO INPUT 1)	
CN502	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO INPUT 2)	
CN503	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO INPUT 3)	
CN504	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO INPUT 4)	
CN505	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO OUTPUT 1)	
CN506	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO OUTPUT 2)	
CN507	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO OUTPUT 3)	
CN508	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO OUTPUT 4)	
CN509	1-691-431-11	CONNECTOR ASSY, BNC (REF IN/THRU OUT)	
		< DIODE >	
D501	8-719-108-12	DIODE RD9.1E-W	
D502	8-719-108-12	DIODE RD9.1E-W	
D503	8-719-108-12	DIODE RD9.1E-W	
D504	8-719-108-12	DIODE RD9.1E-W	
D505	8-719-108-12	DIODE RD9.1E-W	
D506	8-719-108-12	DIODE RD9.1E-W	
D507	8-719-108-12	DIODE RD9.1E-W	
D508	8-719-108-12	DIODE RD9.1E-W	
D509	8-719-108-12	DIODE RD9.1E-W	
D510	8-719-108-12	DIODE RD9.1E-W	
D511	8-719-108-12	DIODE RD9.1E-W	
D512	8-719-108-12	DIODE RD9.1E-W	
D513	8-719-108-12	DIODE RD9.1E-W	
D514	8-719-108-12	DIODE RD9.1E-W	
D515	8-719-108-12	DIODE RD9.1E-W	
D516	8-719-108-12	DIODE RD9.1E-W	
D517	8-719-108-12	DIODE RD9.1E-W	
		< IC >	
IC501	8-759-805-14	IC LC7822	
IC502	8-759-805-14	IC LC7822	

Ref. No.	Part No.	Description	Remark
IC503	8-759-805-14	IC LC7822	
IC504	8-759-805-14	IC LC7822	
IC505	8-759-271-05	IC LT1252CN8	
IC506	8-759-271-05	IC LT1252CN8	
IC507	8-759-271-05	IC LT1252CN8	
IC508	8-759-271-05	IC LT1252CN8	
IC509	8-759-271-05	IC LT1252CN8	
IC510	8-759-271-05	IC LT1252CN8	
IC511	8-759-271-05	IC LT1252CN8	
IC512	8-759-271-05	IC LT1252CN8	
IC513	8-759-822-05	IC LA7213	
IC514	8-759-805-14	IC LC7822	
		< COIL >	
L501	1-408-609-41	INDUCTOR 33uH	
L502	1-408-609-41	INDUCTOR 33uH	
		< TRANSISTOR >	
Q501	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
Q502	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
Q503	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
Q504	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
Q505	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
Q506	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
Q507	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
Q508	8-729-012-31	TRANSISTOR 2SC4040-TL2-Q	
Q509	8-729-901-40	TRANSISTOR 2SC1740S-Q	
		< RESISTOR >	
R001	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R004	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R007	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R010	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R011	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R501	1-215-394-00	METAL 75 1%	1/4W
R502	1-215-394-00	METAL 75 1%	1/4W
R503	1-215-394-00	METAL 75 1%	1/4W
R504	1-215-394-00	METAL 75 1%	1/4W
R505	1-215-394-00	METAL 75 1%	1/4W
R506	1-215-394-00	METAL 75 1%	1/4W
R507	1-215-394-00	METAL 75 1%	1/4W
R508	1-215-394-00	METAL 75 1%	1/4W
R509	1-216-073-00	METAL CHIP 10K 5%	1/10W
R510	1-216-073-00	METAL CHIP 10K 5%	1/10W
R511	1-216-073-00	METAL CHIP 10K 5%	1/10W
R512	1-216-073-00	METAL CHIP 10K 5%	1/10W
R513	1-216-073-00	METAL CHIP 10K 5%	1/10W
R514	1-216-073-00	METAL CHIP 10K 5%	1/10W
R515	1-216-073-00	METAL CHIP 10K 5%	1/10W
R516	1-216-073-00	METAL CHIP 10K 5%	1/10W
R517	1-216-647-11	METAL CHIP 680 0.5%	1/10W
R518	1-216-647-11	METAL CHIP 680 0.5%	1/10W
R519	1-216-647-11	METAL CHIP 680 0.5%	1/10W
R520	1-216-647-11	METAL CHIP 680 0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R521	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R522	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R523	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R524	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R525	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R526	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R527	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R528	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R529	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R530	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R531	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R532	1-216-648-11	METAL CHIP	750	0.5%	1/10W
R533	1-216-073-00	METAL CHIP	10K	5%	1/10W
R534	1-216-073-00	METAL CHIP	10K	5%	1/10W
R535	1-216-073-00	METAL CHIP	10K	5%	1/10W
R536	1-216-073-00	METAL CHIP	10K	5%	1/10W
R537	1-216-073-00	METAL CHIP	10K	5%	1/10W
R538	1-216-073-00	METAL CHIP	10K	5%	1/10W
R539	1-216-073-00	METAL CHIP	10K	5%	1/10W
R540	1-216-073-00	METAL CHIP	10K	5%	1/10W
R541	1-215-394-00	METAL	75	1%	1/4W
R542	1-215-394-00	METAL	75	1%	1/4W
R543	1-215-394-00	METAL	75	1%	1/4W
R544	1-215-394-00	METAL	75	1%	1/4W
R545	1-215-394-00	METAL	75	1%	1/4W
R546	1-215-394-00	METAL	75	1%	1/4W
R547	1-215-394-00	METAL	75	1%	1/4W
R548	1-215-394-00	METAL	75	1%	1/4W
R549	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R550	1-216-041-00	METAL CHIP	470	5%	1/10W
R551	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R552	1-216-073-00	METAL CHIP	10K	5%	1/10W
R553	1-216-037-00	METAL CHIP	330	5%	1/10W
R554	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R555	1-216-073-00	METAL CHIP	10K	5%	1/10W
R556	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R557	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R558	1-216-101-00	METAL CHIP	150K	5%	1/10W
R559	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R561	1-216-073-00	METAL CHIP	10K	5%	1/10W
R562	1-216-073-00	METAL CHIP	10K	5%	1/10W
R563	1-216-073-00	METAL CHIP	10K	5%	1/10W
R564	1-216-073-00	METAL CHIP	10K	5%	1/10W
R565	1-216-073-00	METAL CHIP	10K	5%	1/10W
R566	1-216-073-00	METAL CHIP	10K	5%	1/10W
R567	1-216-073-00	METAL CHIP	10K	5%	1/10W
R568	1-216-073-00	METAL CHIP	10K	5%	1/10W
R569	1-216-037-00	METAL CHIP	330	5%	1/10W
R570	1-216-037-00	METAL CHIP	330	5%	1/10W
R571	1-216-037-00	METAL CHIP	330	5%	1/10W
R572	1-216-037-00	METAL CHIP	330	5%	1/10W
R573	1-216-037-00	METAL CHIP	330	5%	1/10W
R574	1-216-037-00	METAL CHIP	330	5%	1/10W
R575	1-216-037-00	METAL CHIP	330	5%	1/10W
R576	1-216-037-00	METAL CHIP	330	5%	1/10W

Ref. No.	Part No.	Description			Remark
R577	1-216-073-00	METAL CHIP	10K	5%	1/10W
R578	1-216-073-00	METAL CHIP	10K	5%	1/10W
R579	1-216-073-00	METAL CHIP	10K	5%	1/10W
R580	1-216-073-00	METAL CHIP	10K	5%	1/10W
R581	1-216-073-00	METAL CHIP	10K	5%	1/10W
R582	1-216-073-00	METAL CHIP	10K	5%	1/10W
R583	1-216-073-00	METAL CHIP	10K	5%	1/10W
R584	1-216-073-00	METAL CHIP	10K	5%	1/10W
R585	1-216-001-00	METAL CHIP	10	5%	1/10W
R586	1-216-001-00	METAL CHIP	10	5%	1/10W
R587	1-216-001-00	METAL CHIP	10	5%	1/10W
R588	1-216-001-00	METAL CHIP	10	5%	1/10W
R589	1-216-001-00	METAL CHIP	10	5%	1/10W
R590	1-216-001-00	METAL CHIP	10	5%	1/10W
R591	1-216-001-00	METAL CHIP	10	5%	1/10W
R592	1-216-001-00	METAL CHIP	10	5%	1/10W
R593	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R594	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R595	1-249-385-11	CARBON	2.2	5%	1/6W
R596	1-249-385-11	CARBON	2.2	5%	1/6W

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* A-4588-788-A VIDEO BOARD, COMPLETE (EXCEPT 1680S/1)
* A-4588-870-A VIDEO BOARD, COMPLETE (1680S/1)
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< CAPACITOR >

C401	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C402	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C403	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C404	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C405	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C406	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C407	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C408	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C409	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C410	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C411	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C412	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C413	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C414	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C415	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C416	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C417	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C418	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C419	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C420	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C421	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C422	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C423	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C424	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C433	1-126-916-11	ELECT	1000uF	20%	6.3V
C434	1-126-916-11	ELECT	1000uF	20%	6.3V
C435	1-126-916-11	ELECT	1000uF	20%	6.3V
C436	1-126-916-11	ELECT	1000uF	20%	6.3V

VIDEO

Ref. No.	Part No.	Description			Remark
C437	1-126-916-11	ELECT	1000uF	20%	6.3V
C438	1-126-916-11	ELECT	1000uF	20%	6.3V
C439	1-126-916-11	ELECT	1000uF	20%	6.3V
C440	1-126-916-11	ELECT	1000uF	20%	6.3V
C441	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C442	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C443	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C444	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C445	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C446	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C447	1-126-934-11	ELECT	220uF	20%	16V
C448	1-126-934-11	ELECT	220uF	20%	16V
C449	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C450	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C451	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C452	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C453	1-126-963-11	ELECT	4.7uF	20%	50V
C454	1-126-963-11	ELECT	4.7uF	20%	50V
C455	1-126-963-11	ELECT	4.7uF	20%	50V
C456	1-126-963-11	ELECT	4.7uF	20%	50V
C457	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C458	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C459	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C460	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C461	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C462	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C463	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C464	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
* CN404	1-774-966-11	CONNECTOR, BNC (RECEPTACLE)			(VIDEO INPUT 1-4)
* CN405	1-774-966-11	CONNECTOR, BNC (RECEPTACLE)			(VIDEO INPUT 5-8)
* CN406	1-774-966-11	CONNECTOR, BNC (RECEPTACLE)			(VIDEO OUTPUT 1-4)
* CN407	1-774-966-11	CONNECTOR, BNC (RECEPTACLE)			(VIDEO OUTPUT 5-8)
		< DIODE >			
D401	8-719-108-12	DIODE	RD9.1E-W		
D402	8-719-108-12	DIODE	RD9.1E-W		
D403	8-719-108-12	DIODE	RD9.1E-W		
D404	8-719-108-12	DIODE	RD9.1E-W		
D405	8-719-108-12	DIODE	RD9.1E-W		
D406	8-719-108-12	DIODE	RD9.1E-W		
D407	8-719-108-12	DIODE	RD9.1E-W		
D408	8-719-108-12	DIODE	RD9.1E-W		
D409	8-719-108-12	DIODE	RD9.1E-W		
D410	8-719-108-12	DIODE	RD9.1E-W		
D411	8-719-108-12	DIODE	RD9.1E-W		
D412	8-719-108-12	DIODE	RD9.1E-W		
D413	8-719-108-12	DIODE	RD9.1E-W		
D414	8-719-108-12	DIODE	RD9.1E-W		
D415	8-719-108-12	DIODE	RD9.1E-W		

Ref. No.	Part No.	Description			Remark
D416	8-719-108-12	DIODE RD9.1E-W			
		< IC >			
IC401	8-752-038-19	IC CXA1432P			
IC402	8-752-038-19	IC CXA1432P			
IC403	8-752-038-19	IC CXA1432P			
IC404	8-752-038-19	IC CXA1432P			
IC405	8-752-038-19	IC CXA1432P			
IC406	8-752-038-19	IC CXA1432P			
IC407	8-752-038-19	IC CXA1432P			
IC408	8-752-038-19	IC CXA1432P			
IC409	8-759-349-41	IC MAX-459CPL			
IC410	8-759-349-41	IC MAX-459CPL			
		< COIL >			
L401	1-408-609-41	INDUCTOR	33uH		
L402	1-408-609-41	INDUCTOR	33uH		
		< RESISTOR >			
R401	1-215-394-00	METAL	75	1%	1/4W (EXCEPT 1680S/1)
R402	1-215-394-00	METAL	75	1%	1/4W (EXCEPT 1680S/1)
R403	1-215-394-00	METAL	75	1%	1/4W (EXCEPT 1680S/1)
R404	1-215-394-00	METAL	75	1%	1/4W (EXCEPT 1680S/1)
R405	1-215-394-00	METAL	75	1%	1/4W (EXCEPT 1680S/1)
R406	1-215-394-00	METAL	75	1%	1/4W (EXCEPT 1680S/1)
R407	1-215-394-00	METAL	75	1%	1/4W (EXCEPT 1680S/1)
R408	1-215-394-00	METAL	75	1%	1/4W (EXCEPT 1680S/1)
R425	1-216-073-00	METAL CHIP	10K	5%	1/10W
R426	1-216-073-00	METAL CHIP	10K	5%	1/10W
R427	1-216-073-00	METAL CHIP	10K	5%	1/10W
R428	1-216-073-00	METAL CHIP	10K	5%	1/10W
R429	1-216-073-00	METAL CHIP	10K	5%	1/10W
R430	1-216-073-00	METAL CHIP	10K	5%	1/10W
R431	1-216-073-00	METAL CHIP	10K	5%	1/10W
R432	1-216-073-00	METAL CHIP	10K	5%	1/10W
R433	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R434	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R435	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R436	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R437	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R438	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R439	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R440	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R441	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R442	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R443	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R444	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R445	1-216-089-00	METAL GLAZE	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R446	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R447	1-216-081-00	METAL CHIP	22K	5%	1/10W
R448	1-216-081-00	METAL CHIP	22K	5%	1/10W

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*	A-4588-841-A	VIDEO 2 BOARD, COMPLETE (1680S)
*	A-4588-871-A	VIDEO 2 BOARD, COMPLETE (1680S/1)

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< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C401	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C402	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C403	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C404	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C405	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C406	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C407	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C408	1-126-320-11	ELECT, NONPOLAR	10uF	20%	16V
C409	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C410	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C411	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C412	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C413	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C414	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C415	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C416	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C417	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C418	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C419	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C420	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C421	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C422	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C423	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C424	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C441	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C442	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C443	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C444	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C445	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C446	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C447	1-126-934-11	ELECT	220uF	20%	16V
C448	1-126-934-11	ELECT	220uF	20%	16V
C449	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C450	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C451	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C452	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C453	1-126-963-11	ELECT	4.7uF	20%	50V
C454	1-126-963-11	ELECT	4.7uF	20%	50V
C455	1-126-963-11	ELECT	4.7uF	20%	50V
C456	1-126-963-11	ELECT	4.7uF	20%	50V
C457	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C458	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C459	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C460	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C461	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C462	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C463	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C464	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

< CONNECTOR >

Ref. No.	Part No.	Description
CN402	1-764-331-11	PIN, CONNECTOR (PCB)(V TYPE)8P
CN403	1-764-331-11	PIN, CONNECTOR (PCB)(V TYPE)8P
* CN404	1-774-966-11	CONNECTOR, BNC (RECEPTACLE) (VIDEO INPUT 9-12)
* CN405	1-774-966-11	CONNECTOR, BNC (RECEPTACLE) (VIDEO INPUT 13-16)

< DIODE >

Ref. No.	Part No.	Description	
D401	8-719-108-12	DIODE	RD9.1E-W
D402	8-719-108-12	DIODE	RD9.1E-W
D403	8-719-108-12	DIODE	RD9.1E-W
D404	8-719-108-12	DIODE	RD9.1E-W
D405	8-719-108-12	DIODE	RD9.1E-W
D406	8-719-108-12	DIODE	RD9.1E-W
D407	8-719-108-12	DIODE	RD9.1E-W
D408	8-719-108-12	DIODE	RD9.1E-W

< IC >

Ref. No.	Part No.	Description	
IC401	8-752-038-19	IC	CXA1432P
IC402	8-752-038-19	IC	CXA1432P
IC403	8-752-038-19	IC	CXA1432P
IC404	8-752-038-19	IC	CXA1432P
IC405	8-752-038-19	IC	CXA1432P
IC406	8-752-038-19	IC	CXA1432P
IC407	8-752-038-19	IC	CXA1432P
IC408	8-752-038-19	IC	CXA1432P
IC409	8-759-349-41	IC	MAX-459CPL
IC410	8-759-349-41	IC	MAX-459CPL

< COIL >

Ref. No.	Part No.	Description	
L401	1-408-609-41	INDUCTOR	33uH
L402	1-408-609-41	INDUCTOR	33uH

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R401	1-215-394-00	METAL	75	1%	1/4W (1680S)
R402	1-215-394-00	METAL	75	1%	1/4W (1680S)
R403	1-215-394-00	METAL	75	1%	1/4W (1680S)
R404	1-215-394-00	METAL	75	1%	1/4W (1680S)
R405	1-215-394-00	METAL	75	1%	1/4W (1680S)
R406	1-215-394-00	METAL	75	1%	1/4W (1680S)
R407	1-215-394-00	METAL	75	1%	1/4W (1680S)
R408	1-215-394-00	METAL	75	1%	1/4W (1680S)
R441	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R442	1-216-089-00	METAL GLAZE	47K	5%	1/10W

VIDEO 2

Ref. No.	Part No.	Description	Remark
R443	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R444	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R445	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R446	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R447	1-216-081-00	METAL CHIP 22K 5%	1/10W
R448	1-216-081-00	METAL CHIP 22K 5%	1/10W

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MISCELLANEOUS
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Ref. No.	Part No.	Description	Remark
52	1-533-293-11	FUSE HOLDER	
* 113	1-955-960-11	HARNESS, WIRE (34 CORE) (1680S, 1680S/1)	
159	1-533-293-11	FUSE HOLDER	
⚠CNJ1	1-526-954-11	INLET, AC (~AC IN)	
⚠F851	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F851	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F852	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F852	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F853	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F853	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F854	1-532-350-00	FUSE, TIME-LAG (T4AL 250V) (AEP,UK)	
⚠F854	1-532-746-11	FUSE, GLASS TUBE (4A 125V) (J)	
⚠F941	1-532-285-00	FUSE, TIME-LAG (T1.25AL 250V) (AEP,UK)	
⚠F941	1-532-743-11	FUSE, GLASS TUBE (2A 125V) (J)	
⚠S101	1-572-066-11	SWITCH, SEESAW (AC POWER)	
⚠T941	1-429-688-11	TRANSFORMER, POWER	

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ACCESSORIES & PACKING MATERIALS
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Ref. No.	Part No.	Description	Remark
⚠	1-534-754-00	POWER CORD (J)	
⚠	1-551-631-22	CORD, POWER (AEP,UK)	
*	2-338-443-01	CUSHION (SIDE PLATE) (1680S, 1680S/1)	
*	2-338-785-01	CUSHION (UPPER.LOWER) (1680S, 1680S/1)	
*	3-704-301-01	BAG (STANDARD), PROTECTION (880S)	
	3-800-983-01	INSTRUCTION (1680S, 1680S/1)	

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HARDWARE LIST

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Ref. No.	Part No.	Description	Remark
#1	7-682-547-09	SCREW (M3X6), S TITE, + BTT	
#2	7-682-558-04	SCREW +P 4X4 (1680S, 1680S/1)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#4	7-682-947-01	SCREW +PSW 3X6 (1680S, 1680S/1)	
#5	7-623-423-07	LW 4, TYPE B (1680S, 1680S/1)	
#6	7-685-647-79	SCREW +BVTP 3X10 TYPE2	
#7	7-685-872-09	SCREW +BVTT 3X8 (S)	
#9	7-684-023-04	N 3, TYPE 2 (880S)	
#10	7-685-159-21	SCREW +P 4X8 TYPE2 SLIT (880S)	
#11	7-685-259-19	SCREW +KTP 4X8 TYPE2 NON-SLIT (880S)	
#12	7-682-548-09	SCREW +B 3X8	
#13	7-682-561-09	SCREW +B 4X8 (1680S, 1680S/1)	
#14	7-688-003-11	W 3, MIDDLE (1680S, 1680S/1)	

⚠印の部品，または⚠印付きの点線で囲まれた部品は， 安全性を維持するために重要な部品です。 従って交換時は，必ず指定の部品を使用して下さい。	The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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